

EMERGENCY RESPONSE REPORT

FOR

DOW CHEMICAL - B1700 PHENOL 2301 N. BRAZOSPORT BLVD FREEPORT, BRAZORIA COUNTY, TEXAS

Prepared for

U.S. Environmental Protection Agency Region 6

Will LaBombard, Project Officer 1445 Ross Avenue Dallas, Texas 75202

Contract No. EP-W-06-042
TDD No. 1/WESTON-042-14-007
Technical Direction Document No. TO-0001-42-14-07
WESTON W.O. No. 20406.012.001.0861.01
NRC No. 1075337
CERCLIS No. N/A
FPN: N/A
EPA OSC: Adam Adams
START-3 PTL: Thomas Walzer

Submitted by

Weston Solutions, Inc.

Cecilia H. Shappee, P.E., Program Manager 5599 San Felipe, Suite 700 Houston, Texas 77056 (713) 985-6600

01 July 2014

PROJECT SUMMARY

This final report describes the U.S. Environmental Protection Agency (EPA) emergency response actions at the Dow Chemical (Dow) B1700 Phenol facility located at 2301 N. Brazosport Boulevard in Freeport, Brazoria County, Texas. The detailed report follows this page, and all attachments are provided as separate portable document format (PDF) files.

On 28 February 2014 at 0512 hours, a Dow representative notified the National Response Center (NRC Report No. 1075337) of the release of 1,000 pounds of phenol into the Plant B canal system at the Dow facility in Freeport, Texas. Later, the estimated amount released was increased to 46,500 pounds of phenol. The pumps at the outlet of the Plant B canal system were shut down to prevent phenol-impacted waters in the Plant B canal system from being pumped into Outfall 003 that discharges directly to the Brazos River. In response to the report, the NRC notified the EPA Region 6 Prevention and Response Branch (PRB) of the release. At 2050 hours on 28 February 2014, EPA-PRB activated the EPA Region 6 Superfund Technical Assessment and Response Team (START-3) contractor, Weston Solutions, Inc. (WESTON®), to respond to the incident. The EPA team (WESTON and EPA) mobilized to the incident location on 01 March 2014, met with Dow representatives, assessed the incident and response efforts, and began documenting response activities in coordination with the United States Coast Guard (USCG), the Texas Commission on Environmental Quality (TCEQ), and Dow. The EPA team collected facts regarding the release and compiled written and photographic documentation of the incident and clean-up activities. On 07 March 2014, at 1600 hours, after the threat to the Brazos River was mitigated, the EPA team demobilized from the incident location at the direction of the EPA On-Scene Coordinator (OSC).

This final report was prepared under Contract No. EP-W-06-042 and Technical Direction Document (TDD) 1/WESTON-042-14-007 for EPA Region 6. The EPA OSC was Adam Adams, and the START-3 Project Team Leader (PTL) was Thomas Walzer.

	The EPA Task Monitor did not provide final approval of this report prior to the completion date of the work assignment. Therefore, Weston Solutions, Inc. has submitted this report absent the Task Monitor's approval.
X	The EPA Task Monitor has provided final approval of this report. Therefore, Weston Solutions, Inc. has submitted this report with the Task Monitor's approval.

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EMERGENCY RESPONSE REPORT

PROJECT SUMMARY

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1. INTRODUCTION

On 28 February 2014 at 0512 hours, a Dow Chemical (Dow) representative notified the National Response Center (NRC Report No. 1075337 - Attachment E) of the release of 1,000 pounds of phenol from a 2-inch pipe in their facility, Plant B, located at 2301 N. Brazosport Boulevard, Freeport, Brazoria County, Texas. The phenol had impacted the Plant B canal system in the facility. The Plant B canal system receives stormwater runoff and seawater used for cooling water in operating units at the facility. Water in the Plant B canal system flows to the 403 Basin. The 403 Basin is then pumped into Outfall 003 that discharges directly into the Brazos River. Dow shut down the pumps to prevent phenol-impacted water from being pumped into Outfall 003. At 0516 hours on 28 February 2014, the NRC notified the EPA Region 6 Prevention and Response Branch (PRB) of the incident. In response to NRC, EPA-PRB activated the EPA Region 6 Superfund Technical Assessment and Response Team (START-3) contractor, Weston Solutions, Inc. (WESTON_®), to respond to the incident. At 0800 hours on 01 March 2014, the EPA team arrived with EPA On-Scene Coordinator (OSC) Adam Adams at the facility and began compiling information regarding the incident and the actions taken by Dow personnel to prevent the release of phenol-impacted water to the Brazos River. Geographic coordinates of the release location are Latitude 28.992545° North, Longitude 95.395612° West. The coordinates were obtained by the EPA team using a Geospatial Information System (GIS) based on the World Geodetic System – 1984 (WGS-84). A Site Location Map and a Site Area Map are included in Attachment A and Attachment B, respectively.

2. BACKGROUND

At 0000 hours on 28 February 2014, a Dow employee noticed a phenol odor in Plant B and traced the odor to a 2-inch pipe in a rack near the northwest corner of Entrance Road and Benzene Road (Attachment C - Site Map). The initial report identified heat expansion as the cause of the failure of the pipe and the release of phenol (Attachment E - NRC Report No. 1075337). The NRC report stated that 1,000 pounds of phenol had been released. On 03 March 2014, the estimate of the release amount was revised to 46,500 pounds of phenol. The release impacted roadside ditches that are part of the Plant B canal system. The Plant B canal system receives seawater used for once-through cooling in the units and collects stormwater runoff in Plant B. The Plant B canal system flows to a basin (403 Basin) on the south side of the facility.

Under normal operating conditions, water is pumped out of the 403 Basin into Outfall 003 that discharges directly to the Brazos River. Dow shut down the 403 Basin pumps to prevent phenolimpacted water from reaching the Brazos River and constructed a dam to isolate the phenolimpacted portion of the Plant B canal system from the 403 Basin. In addition, Dow constructed a series of dams in the canal system to prevent phenol-impacted water from mixing with water not impacted by phenol.

3. ACTIONS TAKEN

At 0800 hours on 01 March 2014, the EPA team arrived at the incident location and visually assessed the incident. The EPA team met with Dow Incident Commander (IC), Mark Kuettel, who reported that no phenol had been discharged to the Brazos River, and the current goals were to construct dams to prevent the further spread of impacted water, identify locations to store the impacted water prior to treatment, route non-impacted cooling water to other outfalls for discharge, and identify a treatment strategy for the impacted water. Mr. Kuettel also stated it was estimated that 10,000,000 gallons of water was impacted and three storage options were being evaluated. These storage options included the Dorr Ponds on the facility property (10,000,000-gallon capacity), aboveground tanks in Plant A, and barges to be located at the docks on the Brazos River that services Plant B. The locations of the selected temporary phenol-impacted water storage areas are shown on the Site Area Map (Attachment B). The EPA team toured the Site to observe the clean-up activities and photograph the isolation dams (Attachment D - Digital Photographs). Representatives of the United States Coast Guard (USCG) and Texas Commission on Environmental Quality (TCEQ) were also at the facility command post and formed part of the Unified Incident Command.

The EPA team observed that Dow implemented several clean-up and containment strategies at the facility. Dow personnel prevented flow of water from non-impacted areas and cooling water from the entering phenol-impacted areas to retain storage capacity in the impacted areas and increases in the amount of impacted water. Some non-impacted water was retained in the Plant B canal system to use in the final flush of the canal system. Non-phenol-impacted water was removed from Dorr Ponds #3 and #4 to allow for their use as temporary storage of phenol-impacted water. The total storage capacity of the Dorr Ponds #3 and #4 was reported to be 10,000,000 gallons. Between 1630 hours on 02 March 2014 and 1630 hours on 03 March 2014,

Dow transferred 9,000,000 gallons of impacted water into the Dorr ponds, leaving 1,000,000 gallons of reserve capacity for rain events and other contingencies. Daily reports, updates, and analytical summaries provided by Dow are presented in Attachment G.

The B-47 Pond located on the south side of Plant B was identified as a fourth option for use as a temporary storage location. The B-47 Pond is an impoundment lined with clay, and it has a capacity of 44,000,000 gallons and an empty free board height of 19 feet. A plan for transferring impacted water to the B-47 Pond was submitted by Dow to the EPA, TCEQ, and USCG because the transfer required lines to cross Outfall 003 that directly discharges to the Brazos River.

Following USCG approval of the transfer plan, Dow initially installed two 12-inch lines to perform this transfer, and a third 12-inch line was added to increase the transfer rate of the impacted water. The sections of the transfer lines to the B-47 Pond that crossed the water in Outfall 003 were welded steel pipe mounted on an existing pipe bridge, and the sections of the transfer lines within the Plant B secondary containment consisted of 12-inch hoses. USCG was on-site to monitor commissioning of the transfer lines. Transfer to the B-47 Pond began at 0600 hours on 04 March 2014. As of 1330 hours on 06 March 2014, 7.25 feet of the 19 feet capacity had been used.

At 1100 hours on 07 March 2014, flushing operations were begun to move residual liquids in the Plant B canal system to recovery locations upstream of the final isolation dam located at the junction of the Plant B canal system and 403 Basin. Temporary dams associated with the Plant B canal system were removed to allow waters to flow through the impacted portions. Portions of the phenol-impacted area that could not be flushed using detained water were flushed using water from the plant firefighting system.

The EPA team was demobilized from the site on 07 March 2014 at 1600 hours by EPA OSC Adams following determination that the phenol-impacted water was contained and did not threaten the Brazos River.

In a summary report, Dow stated that on 08 March 2014, the last of the intermediate isolation dams in the Plant B canal system was removed, and the detained water was used to flush the phenol-impacted water to recovery locations for transfer to the B-47 Pond. The phenol

concentrations in the Plant B canal system were then measured at five locations and concentrations ranged between 0.5 parts per million (ppm) and 4.0 ppm, with Outfall 003 still having non-detectable concentrations of phenol. The transfer of impacted water to the B-47 pond was ceased because the phenol concentrations in the Plant B canal system were estimated by Dow as below levels that would cause an exceedence of the National Pollutant Discharge Elimination System (NPDES) permit. For Outfall 003, the NPDES permit limit for phenol is 0.5 ppm. Based on the concentrations of phenol measured at the five locations, the final isolation dam, which separated the Plant B canal system from the 403 Basin and the discharge point to Outfall 003, was removed and the facility was returned to normal operations.

Dow also reported that an estimated volume of approximately 20,000,000 gallons of phenolimpacted canal water was secured in temporary storage in Dorr Pond #3, Dorr Pond #4, and the B-47 Pond. Additionally, on 08 March 2014, at approximately 1530 hours, Dow reported that the phenol concentrations in the B-47 Pond ranged from 100 to 103 ppm and that these concentrations required treatment and/or disposal of the impacted water; however, no disposal operations were reported at this time.

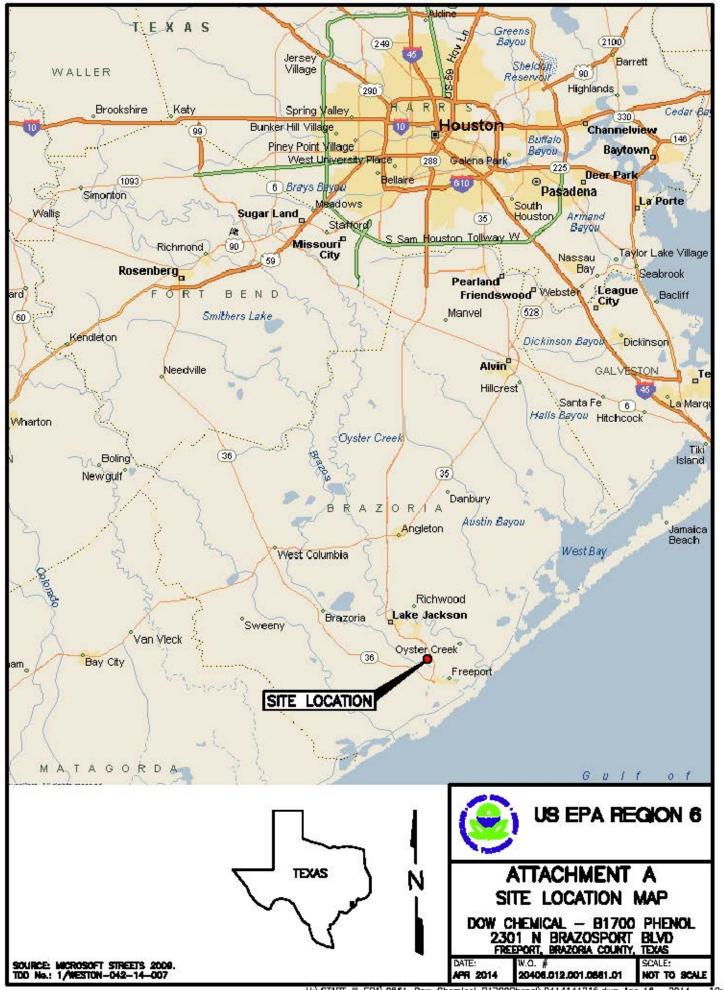
This final report was prepared as part of the requirements of Technical Direction Document (TDD) No. 1/WESTON-042-14-007 and serves as documentation of work completed to date.

4. LIST OF ATTACHMENTS

- A. Site Location Map
- B. Site Area Map
- C. Site Map
- D. Digital Photographs
- E. NRC Report No 1075337
- F. Pollution Reports (POLREPs)
- G. Dow Progress Reports and Analytical Summaries
- H. Site Logbook
- I. TDD No. 1/WESTON-042-14-007

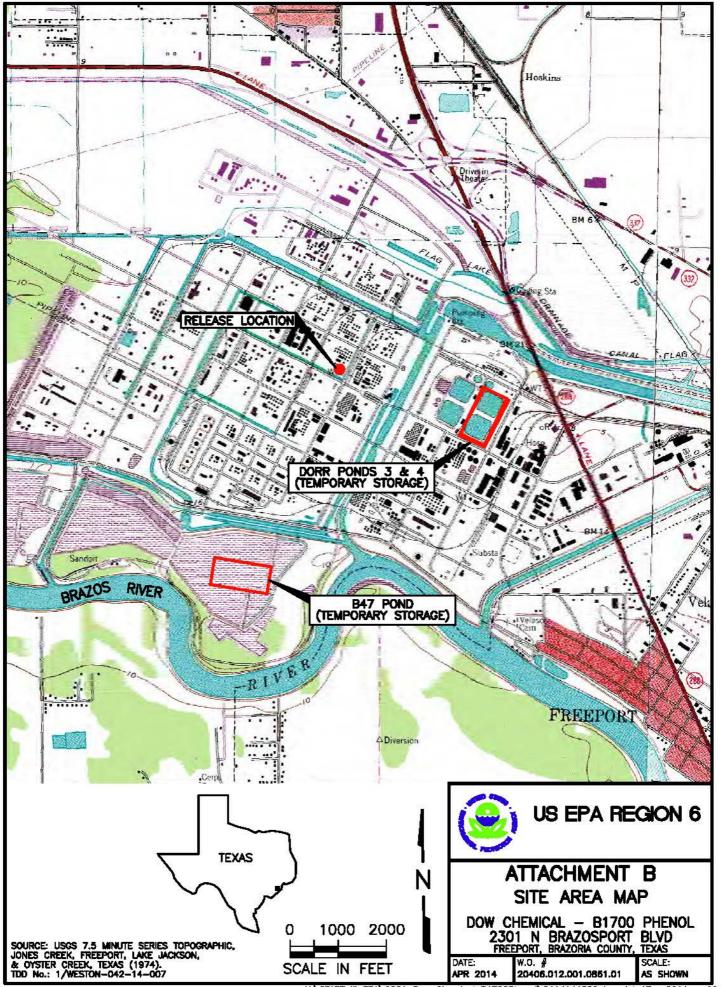
ATTACHMENT A

SITE LOCATION MAP



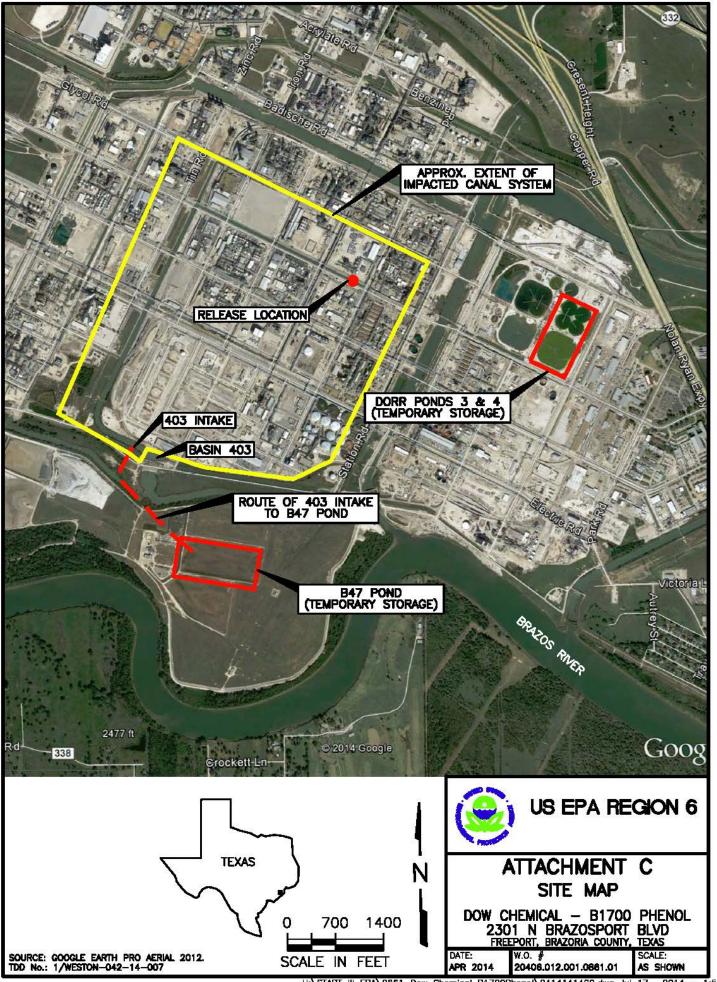
ATTACHMENT B

SITE AREA MAP



ATTACHMENT C

SITE MAP





SEARCH

Enter Photo #



Incident Name:

Event Name: DowChemical-B1700 Phenol

Photo Type: Overview Direction:

20140301_1026-IMG_0538.JPG Photo Name:

Date and Time: Mar 1 2014 12:00AM

28.995519 -95.402838 Latitude: Longitude: Photographer: Tom Walzer Witness: Adam Adams

Caption: Fish kill in stormwater canal



SEARCH

Enter Photo #



Incident Name:

Event Name:

Photo Type: Direction:

Photo Name:

Date and Time:

Latitude: Longitude: Photographer:

Witness: Caption: B1700

DowChemical-B1700 Phenol

Overview

F

20140301_1039-IMG_0547.JPG

Mar 1 2014 12:00AM

28.983749 -95.395591

Tom Walzer Adam Adams Brazos River



SEARCH

Enter Photo #



Incident Name:

Event Name: DowChemical-B1700 Phenol

Photo Type: Overview Direction: N

Photo Name: 20140301_1026-IMG_0540.JPG

Date and Time: Mar 1 2014 12:00AM

Latitude: 28.995547
Longitude: -95.402938
Photographer: Tom Walzer
Witness: Adam Adams

Caption: Fish kill onsite near release site.



SEARCH

Enter Photo #



Incident Name:

Event Name: DowChemical-B1700 Phenol

Photo Type: Overview Direction: N

Photo Name: 20140301_1022-IMG_0536.JPG

Date and Time: Mar 1 2014 12:00AM

Latitude: 28.992649
Longitude: -95.395997
Photographer: Tom Walzer
Witness: Adam Adams

 Caption:
 Release point and coffer dam containment.



SEARCH

Enter Photo #



Incident Name: B17

Event Name: DowChemical-B1700 Phenol

Photo Type: Overview

Direction:

Photo Name: 20140301_1040-IMG_0548.JPG

Date and Time: Mar 1 2014 12:00AM

Latitude: 28.983552
Longitude: -95.395186
Photographer: Tom Walzer
Witness: Adam Adams

Caption

Continuous monitoring system on discharge to Brazos River



SEARCH

Enter Photo #



Incident Name:

Event Name: DowChemical-B1700 Phenol

Photo Type: Overview Direction: NE

Photo Name: 20140301_1034-IMG_0544.JPG

Date and Time: Mar 1 2014 12:00AM

Latitude: 28.985180
Longitude: -95.405472
Photographer: Tom Walzer
Witness: Adam Adams

Caption: Inlet to 403 canal pump station



SEARCH

Enter Photo #



Incident Name:

Event Name:

Photo Type: Direction:

Photo Name:

Date and Time:

Latitude: Longitude:

Photographer: Witness:

Caption:

B1700

DowChemical-B1700 Phenol

Overview

SE

20140301_1035-IMG_0546.JPG

Mar 1 2014 12:00AM

28.985194 -95.405547

Tom Walzer Adam Adams

Outlet to Brazos River



SEARCH

Enter Photo #



Incident Name:

DowChemical-B1700 Phenol Event Name:

Photo Type: Overview Direction:

Photo Name: 20140301_1034-IMG_0542 2.JPG

Date and Time: Mar 1 2014 12:00AM

28.985316 -95.405800 Latitude: Longitude: Tom Walzer Photographer: Witness: Adam Adams

Construction of dam to exclude contaminated water from pump station so pump station

can be used for clean water



SEARCH

Enter Photo #



Incident Name:

Event Name:

Photo Type: Direction:

20140302_DOW_photo.JPG Photo Name: Date and Time:

Latitude: Longitude:

Photographer:

Witness:

Caption:

DowChemical-B1700 Phenol

Overview

Mar 2 2014 12:00AM

28.985314 -95.404937 Tom Walzer

403 Pump Basin after dewatering



SEARCH

Enter Photo #



Incident Name:

Event Name: DowChemical-B1700 Phenol

Photo Type: Overview Direction: W

Photo Name: 20140303_1416_IMG_0554.JPG

Date and Time: Mar 3 2014 12:00AM

Latitude: 28.982436
Longitude: -95.403380
Photographer: Tom Walzer
Witness: Adam Adams

Caption:

12-inch hose being installed to transfer impacted water to Pond B



SEARCH

Enter Photo #



Incident Name:

Event Name: DowChemical-B1700 Phenol

Photo Type: Overview Direction: NW

Photo Name: 20140303_1416_IMG_0553.JPG

Date and Time: Mar 3 2014 12:00AM

Latitude: 28.982675 Longitude: -95.403375 Photographer: Tom Walzer

Witness: Caption:

Operations installing hose for transfer to Pond B



SEARCH

Enter Photo #



Incident Name:

Event Name: DowChemical-B1700 Phenol

Photo Type: Overview Direction:

20140303_1420_IMG_0556.JPG Photo Name:

Date and Time:

Mar 3 2014 12:00AM 28.982288 -95.403458 Latitude: Longitude: Photographer: Tom Walzer Witness: Adam Adams

Caption: Discharge hose into Pond B



SEARCH

Enter Photo #



Incident Name:

Event Name: DowChemical-B1700 Phenol

Photo Type: Overview Direction: NW

Photo Name: 20140303_1420_IMG_0557.JPG

Date and Time: Mar 3 2014 12:00AM

Latitude: 28.982383
Longitude: -95.403427
Photographer: Tom Walzer
Witness: Adam Adams

Caption:

Working to connect hose from Pond B to hose from 403 Basin



SEARCH

Enter Photo #



Incident Name:

DowChemical-B1700 Phenol Event Name:

Photo Type: Overview Direction:

20140304_1329-IMG_0566.JPG Photo Name: Date and Time:

Mar 4 2014 12:00AM

28.985466 Latitude: -95.405800 Longitude: Tom Walzer Photographer:

Witness:

Dam in Canal that separates the impacted water from the non-impacted water in the

403 basin



SEARCH

Enter Photo #



Incident Name:

Event Name:

Photo Type: Direction:

Photo Name:

Date and Time: Latitude:

Longitude: Photographer: Witness:

DowChemical-B1700 Phenol

Overview

20140304_1332-IMG_0568.JPG

Mar 4 2014 12:00AM 28.985236 -95.405669 Tom Walzer

Hoses from 403 canal to B-47 Pond with secondary containment at flanges.



SEARCH

Enter Photo #



Incident Name:

Event Name: DowChemical-B1700 Phenol Photo Type: Overview

Photo Type: Direction: Photo Name:

me: 20140304_1318-IMG_0565.JPG

Date and Time: Mar 4 2014 12:00AM

Latitude:28.982108Longitude:-95.403441Photographer:Tom Walzer

Witness: Caption:

B-47 B Pond - 2 hoses in place the discharge for a 3rd nose in place



SEARCH

Enter Photo #



Incident Name:

Event Name: DowChemical-B1700 Phenol

Photo Type: Overview Direction:

20140304_1332_IMG_0569.JPG Photo Name:

Date and Time:

Mar 4 2014 12:00AM 28.985244 -95.405730 Latitude: Longitude: Photographer: Tom Walzer

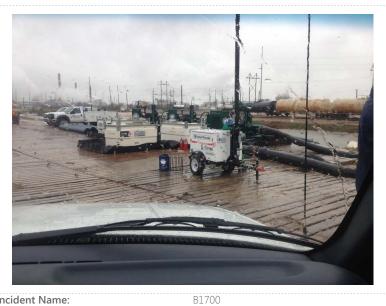
Witness:

Caption: Hoses to B-47 Pond



SEARCH

Enter Photo #



Incident Name:

Event Name: DowChemical-B1700 Phenol

Photo Type: Overview Direction:

20140304_1330-IMG_0567.JPG Photo Name:

Date and Time: Mar 4 2014 12:00AM

28.985630 -95.405747 Latitude: Longitude: Photographer: Tom Walzer Witness: Adam Adams

Caption: Pumps feeding the hoses to B-47 Pond



SEARCH

Enter Photo #



Incident Name: B17

Event Name: DowChemical-B1700 Phenol

Photo Type:OverviewDirection:SE

Photo Name:

20140304_0700_DOW_B-47 B-Pond Startup 3-4 at 7 am 2.jpg

Date and Time: Mar 4 2014 12:00AM

Latitude: 28.985244

Latitude:28.985244Longitude:-95.405730Photographer:Tom WalzerWitness:Adam Adams

Caption:

04 March 2014 0700 Beginning to fill B=47 B Pond



SEARCH

Enter Photo #



Incident Name:

DowChemical-B1700 Phenol Event Name:

Photo Type: Overview Direction: NE

Photo Name:

20140304_1100_DOW_B-47 B-Pond level at 11amv3.jpg

Date and Time: Mar 4 2014 12:00AM

Latitude: 28.985244 -95.405730 Longitude: Photographer: Tom Walzer

Witness: Caption:

04 March 2014 1100 hours B-47 B Pond level



SEARCH

Enter Photo #



Incident Name:

Event Name: DowChemical-B1700 Phenol

Photo Type: Direction:

20140304_1316-IMG_0558.JPG

Photo Name: Date and Time:

Mar 4 2014 12:00AM

Latitude: Longitude: Photographer: 28.981905 -95.403519 Tom Walzer

Overview

Witness: Caption:

04 March 2014 1100 hours B-47 B Pond level

ATTACHMENT E

NRC REPORT NO. 1075337

Submit Action Report

Spill Summary Report

NATIONAL RESPONSE CENTER 1-800-424-8802

GOVERNMENT USE ONLYGOVERNMENT USE ONLY***

Information released to a third party shall comply with any applicable federal and/or state Freedom of Information and Privacy Laws

Incident Report # 1075337

INCIDENT DESCRIPTION

*Report taken by: CIV LOTTIE JOHNSON at 05:12 on 28-FEB-14

Incident Type: PIPELINE Incident Cause: OTHER

Affected Area:

Incident occurred on 28-FEB-14 at 00:00 local incident time.

Affected Medium: LAND

SUSPECTED RESPONSIBLE PARTY

DONNIE SCHUMAKER

Organization: DOW CHEMICAL

Address:

2301 N. BRAZOSPORT BLVD

FREEPORT, TX 77541

PRIMARY Phone: (979)2382112

Type of Organization: PRIVATE ENTERPRISE

INCIDENT LOCATION

2301 N. BRAZOSPORT BLVD County: BRAZORIA

City: FREEPORT State: TX Zip: 77541

RELEASED MATERIAL(S)

CHRIS Code: PHN

Official Material Name: PHENOL

Also Known As:

Qty Released: 1000 POUND(S)

DESCRIPTION OF INCIDENT

CALLER IS REPORTING A DISCHARGE OF PHENOL FROM A 2 INCH PIPE DUE TO THERMAL

EXPANSION OF PRODUCT.

INCIDENT DETAILS

Pipeline Type: FLOW DOT Regulated: NO

Pipeline Above/Below Ground: ABOVE

Exposed or Under Water: NO Pipeline Covered: UNKNOWN

IMPACT

Fire Involved: NO

Fire Extinguished: UNKNOWN

INJURIES:

NO

Hospitalized:

Empl/Crew:

Passenger:

FATALITIES:

NO

Empl/Crew:

Passenger:

Occupant:

EVACUATIONS: NO Who Evacuated: Radius/Area:

Damages: NO

Hours Direction of

<u>Closure Type</u> <u>Description of Closure</u> <u>Closed</u> <u>Closure</u>

Air: N

Road: N

Major Artery: N

Waterway: N

Track: N

Passengers Transferred: NO Environmental Impact: UNKNOWN

Media Interest: UNKNOWN Community Impact due to Material:

REMEDIAL ACTIONS

SHUT DOWN ALL PUMPING CAPABILITIES AND TESTING THE WATER, WILL PICK UP MATERIAL

Release Secured: YES

Release Rate:

Estimated Release Duration:

WEATHER

Weather: CLEAR, DF

ADDITIONAL AGENCIES NOTIFIED

Federal:

State/Local: EMERGENCY MANAGEMENT BY FAX

State/Local On Scene:
State Agency Number:

NOTIFICATIONS BY NRC

MR. RUHL

DHS TEXAS FUSION CENTER (INTELLIGENCE OFFICERS)

28-FEB-14 05:18

(202) 3068204

DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE)

28-FEB-14 05:18 (202)3661863

U.S. EPA VI (MAIN OFFICE)

28-FEB-14 05:19 (866)3727745

JFO-LA (COMMAND CENTER)

28-FEB-14 05:18 (225)3366513

NATIONAL INFRASTRUCTURE COORD CTR (MAIN OFFICE)

28-FEB-14 05:18 (202)2829201

NOAA RPTS FOR TX (MAIN OFFICE)

28-FEB-14 05:18 (206)5264911

NATIONAL RESPONSE CENTER HQ (AUTOMATIC REPORTS)

28-FEB-14 05:18 (202)2671136

NTSB PIPELINE (MAIN OFFICE)

28-FEB-14 05:18 (202)3146293

TCEQ (MAIN OFFICE)

28-FEB-14 05:18 (512)2392507

TCEQ (REGION 12)

28-FEB-14 05:18 (512)2392507

DEPT OF ENERGY STPR (STRATEGIC PETROLEUM RESERVE-EMERGENCY MGMT)

28-FEB-14 05:18 (504)7344113

TX DEPT OF STATE HEALTH SERVICES (COMMAND CENTER)

28-FEB-14 05:18 (512)4587220

TX GENERAL LAND OFFICE (MAIN OFFICE)

28-FEB-14 05:18 (281) 4706597

TX GENERAL LAND OFFICE (TXGLO REGION 2)

28-FEB-14 05:18 (281)4706597

TEXAS STATE OPERATIONS CENTER (COMMAND CENTER)

28-FEB-14 05:18 (512)4242208

USCG DISTRICT 8 (MAIN OFFICE) 28-FEB-14 05:18 (504)5896225 USCG DISTRICT 8 (PLANNING) 28-FEB-14 05:18 (504)6712080

ADDITIONAL INFORMATION

CALLER WILL NOTIFY TCEQ.

*** END INCIDENT REPORT # 1075337 ***

Report any problems by calling 1-800-424-8802

PLEASE VISIT OUR WEB SITE AT http://www.nrc.uscg.mil

Close Window

ATTACHMENT F

POLLUTION REPORTS (POLREPS)

U.S. ENVIRONMENTAL PROTECTION AGENCY POLLUTION/SITUATION REPORT Dow Chemical-B1700Phenol - Removal Polrep Initial Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Region VI

Subject: POLREP #1

Initial

Dow Chemical-B1700Phenol

A6JE

Freeport, TX

Latitude: 28.9925450 Longitude: -95.3956120

To: Ronnie Crossland, Superfund Division

Lawrence Stanton, EPA HQ Anthony Buck, TCEQ

From: Adam Adams, OSC

Date: 3/1/2014

Reporting Period: 02/28/2014 and 03/01/2014

1. Introduction

1.1 Background

Site Number: 1075337 Contract Number: D.O. Number: Action Memo Date:

Response Authority: CERCLA Response Type: Emergency

Response Lead: PRP Incident Category: NPL Status: Non NPL Operable Unit:

Mobilization Date: 2/28/2014 **Start Date:** 2/28/2014

Demob Date: Completion Date:

CERCLIS ID: RCRIS ID:

ERNS No.: 1075337 State Notification:

FPN#: Reimbursable Account #:

1.1.1 Incident Category

CERCLA Emergency Response / Active Production Facility

1.1.2 Site Description

According to the PRP, this Dow Chemical Facility (Site) is the largest chemical manufacturing facility in the United States.

1.1.2.1 Location

The Dow Chemical Facility is located in Brazoria County, Freeport, Texas of Hwy 288.

Release point Latitude: 28.992545

Release point Longitude: -95.395612.

The Site borders the Brazos River to the south, where facility drainage flows.

Incident Command is located at 2301 N. Brazosport Blvd, Freeport, Texas 77541.

1.1.2.2 Description of Threat

A leak in an internal line released 46,500 pounds (3,514 gallons) of phenol into the plant's storm water system which is pumped into the Brazos River. Phenol is a dangerous poison and a combustible liquid vapor. Phenol may be fatal if absorbed through the skin. Phenol can cause severe burns to mucus membranes; eyes, mouth, throat, and respiratory tract. Phenol may cause central nervous system effects. The release has impacted 10,000,000 gallons of water in the storm water system to concentrations between 800 to 900 milligram per liter (mg/L). Several over-the-counter topical products are produced at similar concentrations. The impacted water is currently contained onsite in approximately 1.5 miles of drainage ditch. There has been no impact offsite.

This incident was determined by the US Coast Guard (USCG) and US Environmental Protection Agency (EPA) OSC to be of medium significance.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

Upon initial assessment by USCG and confirmed by EPA, phenol contaminated storm water is contained in the drainage ditches / pathway from the release point to an earthen berm installed by the Potentially Responsible Party (PRP) prior to impact to the Brazos River. The PRP collected samples from downstream of the drainage pump basin earthen berm/dam and confirmed no impact to the Brazos River at the outfall. Analysis of the contaminated storm water in the drainage ditches measures 800 to 900 mg/L phenol, between 7 and 8 pH, and between 7 and 8.5 dissolved oxygen (DO). Less than 100 small and medium fish were found impacted in the drainage ditches.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

At around midnight on 28 February 2014 a phenol odor was identified near unit B1700. The release was traced to a 2-inch insulated pipe in a pipe rack on the south side of the unit into the 403 storm system (drainge ditch). Review of the spill identified that the phenol had not reached the pump station for the outfall 403. The pump station was shutdown to prevent phenol from being pumped into the Brazos River.

2.1.2 Response Actions to Date

The PRP has installed several earthen berms / dams within the 403 storm water system to limit the spread of contamination as well as additional flow into the 403 storm water system. They have constructed a large dam upstream of the pump station basin to isolate the western impacted section of the storm water system. This will allow the impacted water at the pump station to be pumped back into the contained impacted system. The PRP is currently evaluating options for temporary storage and treatment.

Current strategies being developed by the PRP:

Diversion - Areas that flow into the current 403 system are diverted into non-impacted sections of the storm water system to prevent further accumulation and contaminated storm water.

Piping Operations - Available piping with the B block are being redirected and fitted for piping contaminated storm water from the 403 system to an on-site containment (Dorr pond); this pumping operation will not begin until the Dorr pond is evacuated of its current uncontaminated liquids.

Barge Operations - barges are being acquired for potential storage utilization of the contaminated water from the north of B block.

Carbon Beds - activated carbon units are on-site and being set up for scrubbing the contaminated water in the 403 system. This operation will be initiated at the 403 system pump outfall basin to clear the basin and allow clean water from the east to utilize the outfall with releasing the contaminated 403 storm

water. Upon completion of basin evacuation, the carbon units may be used to scrub additional stored phenol contaminated storm water from the 403 system.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

The PRP is Dow Chemical.

2.1.4 Progress Metrics

No disposal operations have been reported at this time; however, estimates indicate approximately 10,000,000 gallons of phenol contaminated storm water presently secured in the 403 system.

Waste Stream	Medium	Quantity	Manifest #	Treatment	Disposal

2.2 Planning Section

2.2.1 Anticipated Activities

2.2.1.1 Planned Response Activities

- 1. Continue safety of response personnel, protection of public health and the environment, and prevent off-site migration.
- 2. Evacuate impoundment Dorr pond of fresh water, for storage of the phenol contaminated storm water.
- 3. Treat the contaminated storm water by activated carbon scrubbing/filtration (or ion bed filtration).
- 4. Continue analysis of the contaminated storm water (pH, DO, phenol concentrations).

2.2.1.2 Next Steps

Determine treatment method of contaminated storm water.

2.2.2 Issues

- 1. Potential rain event on the evening of 03/02/14.
- 2. Approximately 50 small fish and a few medium catfish were found in the 403 drainage ditch system impacted by the incident.

2.3 Logistics Section

No information available at this time.

2.4 Finance Section

At the present time, it is estimated that the response effort by EPA and the USCG will not exceed \$50.000.00.

Resources expended by the PRP have not been provided to the EPA for this POLREP.

Note that the estimates in the following table are only estimates or approximations.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
IAGs (USCG)	\$25,000.00	\$14,000.00	\$11,000.00	44.00%
TAT/START	\$15,000.00	\$4,000.00	\$11,000.00	73.33%
Intramural Costs	•			

USEPA - Direct	\$5,000.00	\$1,000.00	\$4,000.00	80.00%
USEPA - InDirect	\$5,000.00	\$1,000.00	\$4,000.00	80.00%
Total Site Costs	\$50,000.00	\$20,000.00	\$30,000.00	60.00%

^{*} The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

2.5 Other Command Staff

2.5.1 Safety Officer

Health and Safety is being performed by each on-site entity/agency (EPA, USCG, TCEQ, PRP); with primary Safety being conducted by the PRP due to the volume of personnel on-site conducting operations directly or contracted by the PRP.

2.5.2 Liaison Officer

NA

2.5.3 Information Officer

The PRP has a public affairs officer that has been communicating information to the community and stakeholders since the incident was found.

3. Participating Entities

3.1 Unified Command

Unified Command consists of the PRP, EPA, USCG, TCEQ, and Brazoria County Emergency Management.

Due to the proximity to the incident and threat to the Brazos River, USCG responded to the incident under their coastal navigable waters jurisdictional authority. Upon confirmation that there was no impact to the Brazos River, USCG requested EPA take the response oversight lead under inland jurisdictional authority by request to the EPA Hotline. The EPA OSC and START contractors were activated on the evening of 02/28/14 and on-site the morning of 03/01/14.

4. Personnel On Site

As of 03/01/14, personnel on-site include:

EPA - 1 person
EPA contractor (START) - 2 persons
USCG - 10 persons
TCEQ - 1 person
Brazoria County Emergency Management - 1 person
PRP - approximately 250 persons

5. Definition of Terms

No information available at this time.

6. Additional sources of information

6.1 Internet location of additional information/report

www.epaosc.org/B1700Phenol

6.2 Reporting Schedule

Additional POLREPs will be provided upon completion of the incident response / closure (Final), as progress

continues (Progress), or after any significant changes in the incident response (Special), as warranted by the response.

7. Situational Reference Materials

No information available at this time.

U.S. ENVIRONMENTAL PROTECTION AGENCY POLLUTION/SITUATION REPORT Dow Chemical-B1700Phenol - Removal Polrep Final Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Region VI

Subject: POLREP #2

Final

Dow Chemical-B1700Phenol

A6JE

Freeport, TX

Latitude: 28.9925450 Longitude: -95.3956120

To: Ronnie Crossland, Superfund Division

Lawrence Stanton, EPA HQ Anthony Buck, TCEQ

From: Adam Adams, OSC

Date: 3/11/2014

Reporting Period: 03/04/2014 to 03/10/2014

1. Introduction

1.1 Background

Site Number: A6JE Contract Number: D.O. Number: Action Memo Date:

Response Authority: CERCLA Response Type: Emergency

Response Lead: PRP Incident Category:

NPL Status: Non NPL Operable Unit:

 Mobilization Date:
 2/28/2014
 Start Date:
 2/28/2014

 Demob Date:
 3/8/2014
 Completion Date:
 3/11/2014

CERCLIS ID: RCRIS ID:

ERNS No.: 1075337 State Notification:

FPN#: Reimbursable Account #:

1.1.1 Incident Category

CERCLA Emergency Response / Active Production Facility / PRP Oversight

1.1.2 Site Description

According to the PRP, this Dow Chemical Facility (Site) is the largest chemical manufacturing facility in the United States.

1.1.2.1 Location

The Dow Chemical Facility is located in Brazoria County, Freeport, Texas of Hwy 288.

Release point Latitude: 28.992545

Release point Longitude: -95.395612.

The Site borders the Brazos River to the south, where facility drainage flows.

Incident Command is located at 2301 N. Brazosport Blvd, Freeport, Texas 77541.

1.1.2.2 Description of Threat

A leak in an internal line released 46,500 pounds (3,514 gallons) of phenol into the plant's canal water system which is pumped into the Brazos River. Phenol is a dangerous poison and a combustible liquid vapor. Phenol may be fatal if absorbed through the skin. Phenol can cause severe burns to mucus membranes; eyes, mouth, throat, and respiratory tract. Phenol may cause central nervous system effects. The release has impacted 10,000,000 gallons of water in the storm water system to concentrations between 800 to 900 milligram per liter (mg/L). Several over-the-counter topical products are produced at similar concentrations. The impacted water is currently contained onsite in approximately 1.5 miles of drainage ditch. There has been no impact offsite.

This incident was determined by the US Coast Guard (USCG) and US Environmental Protection Agency (EPA) OSC to be of medium significance.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

Upon initial assessment by USCG and confirmed by EPA, phenol contaminated storm water is contained in the drainage ditches / pathway from the release point to an earthen berm installed by the Potentially Responsible Party (PRP) prior to impact to the Brazos River. The PRP collected samples from downstream of the drainage pump basin earthen berm/dam and confirmed no impact to the Brazos River at the outfall. Analysis of the contaminated storm water in the drainage ditches measures 800 to 900 mg/L phenol, between 7 and 8 pH, and between 7 and 8.5 dissolved oxygen (DO). Less than 100 small and medium fish were found impacted in the drainage ditches.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

At around midnight on 28 February 2014 a phenol odor was identified near unit B1700. The release was traced to a 2-inch insulated pipe in a pipe rack on the south side of the unit into the 403 canal system (drainage ditch). Review of the spill identified that the phenol had not reached the pump station for the outfall 403. The pump station was shutdown to prevent phenol from being pumped into the Brazos River. The initial estimates of 10,000,000 gallons of canal water impacted was increased to 20,000,000 gallons based on a more extensive survey of the canal system configuration. A rain event on 02 March 2014 may have added as much as 10,000,000 gallons to the system.

2.1.2 Response Actions to Date

The PRP installed several earthen berms / dams within the 403 canal water system to limit the spread of contamination as well as additional flow into the 403 canal water system. The canal system handles storm water and seawater used as once through cooling water in the plant. They had constructed a large dam upstream of the pump station basin to isolate the western impacted section of the canal water system. This allowed the impacted water at the pump station to be pumped back into the contained impacted system.

Transfer to the Dorr Pond #4 began at 1630 hours 02 March 2014. Transfer to Dorr Pond #3 began on the evening of 03 March 2014. Transfer to B-47 Pond began at 0600 hours 04 March 2014. Transfer to the Dorr Ponds was discontinued at 1630 Hours on 05 March 2014 with 1,000,000 gallons of capacity remaining as a contingency.

At 1100 hours on 07 March 2014 flushing operations began to move residual liquids in the canal system to pick up points by the 403 basin. They removed dams for non-impacted portions of the 403 canal system. Some of the dams isolated low impacted sections. The dams that isolated the low impacted areas were removed first. Areas of impact that could not be flushed using trapped water were flushed using fire water. On 08 March 2014 the last of the isolation dams in the canal system were removed and the trapped water used to flush the impacted water to pick up points was removed to B-47 Pond. On 08 March 2013 the phenol concentrations in the canal measured were at 5 locations and ranged between 0.5 ppm and 4.0 ppm, with the 003 outfall still at non-detectable. Base on the low concentrations

detected, the isolation dam that separated the canal from the 403 Basin and discharge point to the outfall was removed and the plant returned to normal operation.

Excavation of the area at the release point has begun. The excavation in the canal has been completed to prevent impacted soil from being flushed into the rest of the 403 canal system. The excavated soil was placed into roll-off boxes pending identification of disposal options. Impacted soils under the pipe rack were isolated with a diversion berm to a sump lined with plastic. Excavation of the soil under the pipe rack began on 08 March 2014 and will continue until completed.

Strategies implemented by the PRP:

Diversion - Areas that flow into the current 403 system were diverted into non-impacted sections of the canal system to prevent further accumulation and contamination of storm water. Some non-impacted water was retained in portions in the 403 canal system to be used to flush the impacted areas once the impacted water has been removed.

Dorr Ponds - Available piping with the B block was redirected and fitted to pipe contaminated canal water from the 403 system to an on-site containment (Dorr ponds #3 and #4). There was an estimated 10,000,000 gallons storage capacity in the Dorr ponds. After uncontaminated liquids were removed from the Dorr ponds, the transfer to Pond #4 began at 1630 hours 02 March 2014. Transfer to Dorr Pond #3 was delayed until 03 March 2014 due to the hot cut. Transfer to the Dorr Ponds was discontinued at 1630 Hours on 05 March 2014 with 1,000,000 gallons of capacity remaining as a contingency.

B-47 Pond on the south side of Plant B was used as a storage location. Pond B is a clay lined impoundment with a capacity of 44,000,000 gallons and an empty free board of 19 feet. A transfer plan was submitted to the agencies as the transfer required piping to cross the 003 outfall that has direct discharge to the Brazos River. They are initially installed 2 12-inch hoses to do this transfer and a third hose was installed to transfer liquids. The sections that cross water are welded steel pipe mounted on a existing pipe bridge. The USCG was onsite to monitor the commissioning of the transfer lines. Transfer to B-47 Pond began at 0600 hours 04 March 2014. As of 1330 hours on 06 March 2014, 7.25 feet of the 19 feet capacity have been used. On 08 March 2014 transfer to B-47 pond was ceased when the concentration in the 403 canal system dropped to levels that would not cause an exceedence of the NPDES permit. On 08 March 2014 at approximately 1530 hours the concentration in the B-47 Pond ranged from 100 to 103 ppm.

Treatment strategies considered by the PRP:

Carbon Beds - ON HOLD - Activated carbon units were on-site and being considered for scrubbing the contaminated water.

Steam Stripping - the PRP has identified that some phenol may be recovered with steam stripping in working to identify what would be required to recover the Phenol.

ANALYTICAL RESULTS - On 08 March 2014, the maximum detected in the canal system was 4 ppm phenol. The 403 basin and 003 outfall was below detection limits of phenol.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs) The PRP is Dow Chemical.

2.1.4 Progress Metrics

No disposal operations have been reported at this time; however, estimates indicate approximately 20,000,000 gallons of phenol contaminated canal water presently secured in temporary storage.

Waste Stream	Medium	Quantity	Manifest #	Treatment	Disposal

2.2 Planning Section

2.2.1 Anticipated Activities

2.2.1.1 Planned Response Activities

On 09 March 2011, the plant was returning equipment and returning plant to normal traffic flows.

2.2.1.2 Next Steps

- 1. Determine treatment method of contaminated water.
- 2. Determine treatment or disposal options for impacted soil from the release point.

2.2.2 Issues

- 1. Dow is continuing to monitor their discharge as part of their NPDES permit for Phenol.
- 2. Approximately 100 small fish and a few medium catfish were found in the 403 drainage ditch system impacted by the incident.

2.3 Logistics Section

No information available at this time.

2.4 Finance Section

At the present time, it is estimated that the response effort by EPA will not exceed \$30,000.00.

Resources expended by the PRP have not been provided to the EPA for this POLREP.

2.5 Other Command Staff

2.5.1 Safety Officer

Health and Safety is being performed by each on-site entity/agency (EPA, USCG, TCEQ, PRP); with primary Safety being conducted by the PRP due to the volume of personnel on-site conducting operations directly or contracted by the PRP.

2.5.2 Liaison Officer

NA

2.5.3 Information Officer

The PRP has a public affairs officer that has been communicating information to the community and stakeholders since the incident was found.

3. Participating Entities

3.1 Unified Command

Unified Command consists of the PRP, EPA, USCG, TCEQ, and Brazoria County Emergency Management.

Due to the proximity to the incident and threat to the Brazos River, USCG responded to the incident under their coastal navigable waters jurisdictional authority. Upon confirmation that there was no impact to the Brazos River, USCG requested EPA take the response oversight lead under inland jurisdictional authority by request to the EPA Hotline. The EPA OSC and START contractors were activated on the evening of 02/28/14 and on-site the morning of 03/01/14.

4. Personnel On Site

Throughout the response, the following entities and personnel have been on Site, at the discretion of the respective entities:

EPA - 1 person

EPA contractor (START) - 2 persons (up to)

USCG - 10 persons (up to)

TCEQ - 1 person

Brazoria County Emergency Management - 1 person

PRP - approximately 250 persons (up to)

5. Definition of Terms

No information available at this time.

6. Additional sources of information

6.1 Internet location of additional information/report www.epaosc.org/DowChemical-B1700Phenol

6.2 Reporting Schedule

No additional POLREPs will be submitted for this response.

7. Situational Reference Materials

No information available at this time.

INCIDENT OBJECTIVES (ICS 202)

			INI ODULO		(100 202)	
1. Incident Name:			2. Operational	Date Fro	m: 3/1/2014	Date To: 3/2/2014
B-1700 Phenol Spi	II		Period:	Time Fro	om: 0900	Time To: 0900
3. Objective(s):		1				
• , ,	otv 000:	rity and walfars -	f oitizono ond =====	once ===	raannal	
Provide for the safe	-	•		-	sonnei.	
Conduct efforts to dentify locations for	-	•			note from the inci-	dont
Identify and maxim			•			Jent.
Develop and imple	•		•	ve aleas.		
Mange a coordinat		•	• .	the make	up of Unified Con	nmand
Keep the public, st					-	mana.
Return the plant to			•			
		3 7				
4. Operational Per	ried Com	mand Emphasi	<u> </u>			
•		-				
					and protect the sa	afety and welfare of citizens
and respon	ise perso	nner by trying to	execute the follow	virig.		
Move wate	er out of 4	03 canal to #3 h	olding pond.			
		olding pond.	0.1			
		piping to drain th				
			fication to transfer			ling pond.
			Flush / flow 403 or			tion to contaminated side.
						rbone beds when needed.
		est end of plant t		ouoi: 111 oc	orrioo, amiii ig oa	The seas when headed.
Develop pl	an for tra	nsfer to Plant A t	anks			
Determine	· · · · · · · · · · · · · · · · · · ·					
General Situationa	l Awaren	ess				
					ave the ability to s	stop any operation that may be
considered unsafe	as suppo	orted by The Dow	Chemical Compa	any.		
5. Site Safety Plan	n Require	ed? Yes X No □]			
Approved Site	Safety PI	an(s) Located a	t: The Dow Chem	nical Site	Emergency Plan	- DCC EOC
6. Incident Action	Plan (the	e items checked	below are include	d in this li	ncident Action Pla	an):
□ ICS 203	,	ICS 207			er Attachments:	,
☐ ICS 203		ICS 208				
				□ .		
☐ ICS 205		Map/Chart	(F) 1 (5			
☐ ICS 205A		Weather Foreca	ast/Tides/Currents			
☐ ICS 206						
7. Prepared by:	Name:		Position/Tit	le:	S	Signature:

1. Incident Name:		2. Operational	Date From: 3/1/2014	Date To: 3/2/2014
B-1700 Phenol Spill		Period:	Time From: 0900	Time To: 0900
8. Approved by Incident Commander:		Name:	Signature	:
ICS 202	IAP Page	Date/Time:	Date	

ICS 202 Incident Objectives

Purpose. The Incident Objectives (ICS 202) describes the basic incident strategy, incident objectives, command emphasis/priorities, and safety considerations for use during the next operational period.

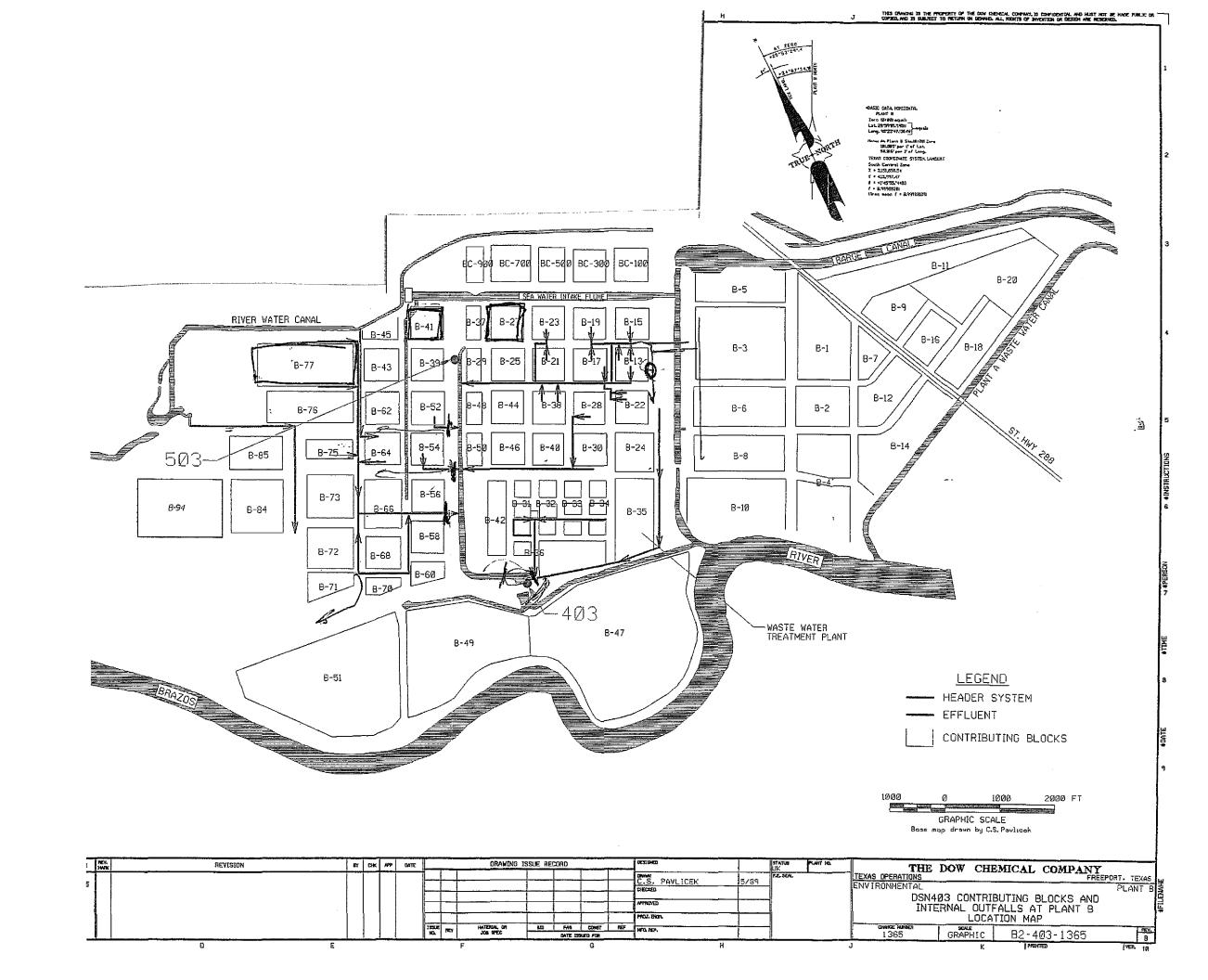
Preparation. The ICS 202 is completed by the Planning Section following each Command and General Staff meeting conducted to prepare the Incident Action Plan (IAP). In case of a Unified Command, one Incident Commander (IC) may approve the ICS 202. If additional IC signatures are used, attach a blank page.

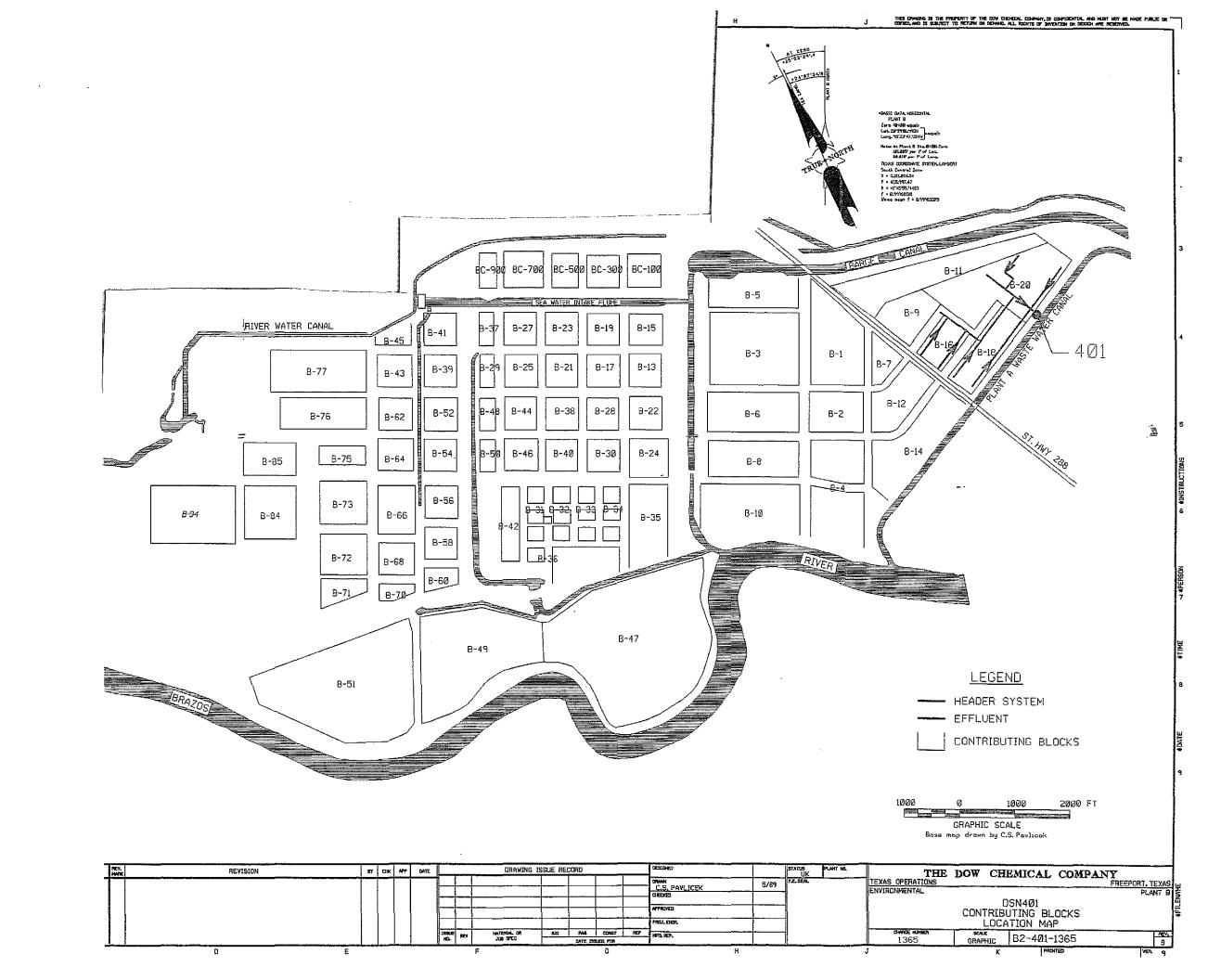
Distribution. The ICS 202 may be reproduced with the IAP and may be part of the IAP and given to all supervisory personnel at the Section, Branch, Division/Group, and Unit levels. All completed original forms must be given to the Documentation Unit.

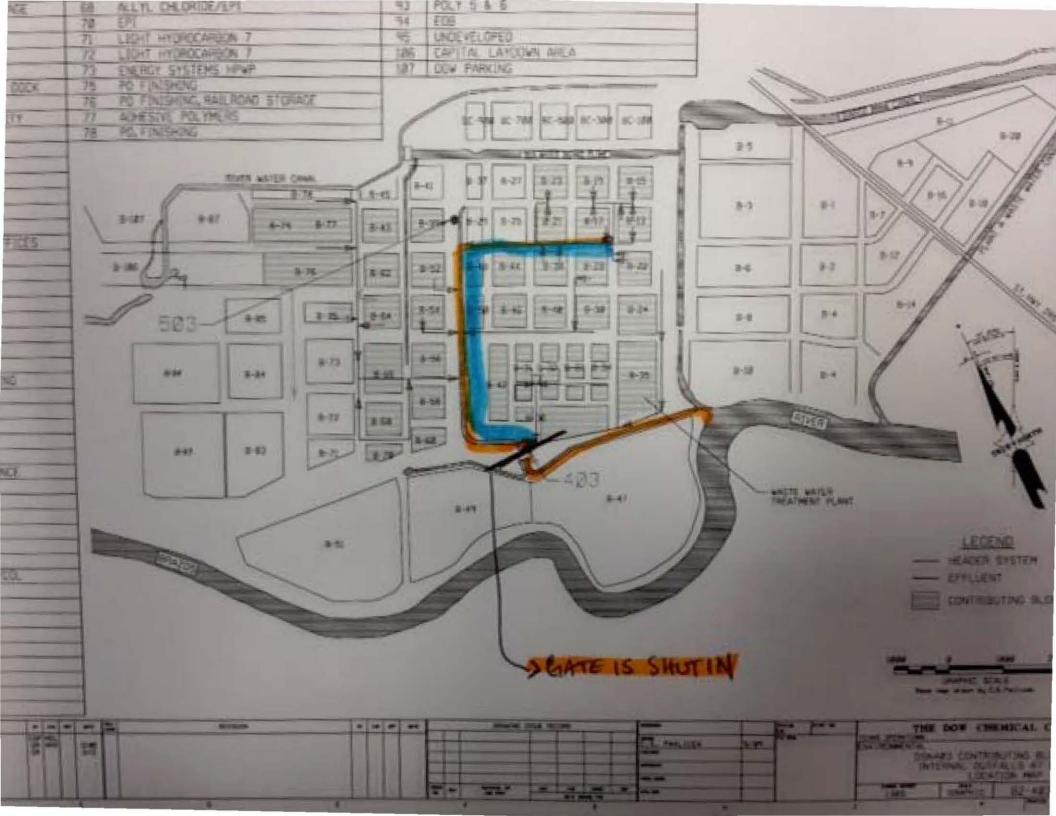
- The ICS 202 is part of the IAP and can be used as the opening or cover page.
- If additional pages are needed, use a blank ICS 202 and repaginate as needed.

Block Number	Block Title	Instructions
1	Incident Name	Enter the name assigned to the incident. If needed, an incident number can be added.
2	Operational PeriodDate and Time FromDate and Time To	Enter the start date (month/day/year) and time (using the 24-hour clock) and end date and time for the operational period to which the form applies.
3	Objective(s)	Enter clear, concise statements of the objectives for managing the response. Ideally, these objectives will be listed in priority order. These objectives are for the incident response for this operational period as well as for the duration of the incident. Include alternative and/or specific tactical objectives as applicable. Objectives should follow the SMART model or a similar approach: Specific – Is the wording precise and unambiguous? Measurable – How will achievements be measured? Action-oriented – Is an action verb used to describe expected accomplishments? Realistic – Is the outcome achievable with given available resources? Time-sensitive – What is the timeframe?
4	Operational Period Command Emphasis	Enter command emphasis for the operational period, which may include tactical priorities or a general weather forecast for the operational period. It may be a sequence of events or order of events to address. This is not a narrative on the objectives, but a discussion about where to place emphasis if there are needs to prioritize based on the Incident Commander's or Unified Command's direction. Examples: Be aware of falling debris, secondary explosions, etc.
	General Situational Awareness	General situational awareness may include a weather forecast, incident conditions, and/or a general safety message. If a safety message is included here, it should be reviewed by the Safety Officer to ensure it is in alignment with the Safety Message/Plan (ICS 208).
5	Site Safety Plan Required? Yes \(\text{No} \(\text{No} \)	Safety Officer should check whether or not a site safety plan is required for this incident.
	Approved Site Safety Plan(s) Located At	Enter the location of the approved Site Safety Plan(s).

Block Number	Block Title	Instructions
6	Incident Action Plan (the items checked below are included in this Incident Action Plan): ICS 203 ICS 204 ICS 205 ICS 205A ICS 206 ICS 207 ICS 208 Map/Chart Weather Forecast/Tides/Currents Other Attachments:	Check appropriate forms and list other relevant documents that are included in the IAP. ICS 203 – Organization Assignment List ICS 204 – Assignment List ICS 205 – Incident Radio Communications Plan ICS 205A – Communications List ICS 206 – Medical Plan ICS 207 – Incident Organization Chart ICS 208 – Safety Message/Plan
7	Prepared byNamePosition/TitleSignature	Enter the name, ICS position, and signature of the person preparing the form. Enter date (month/day/year) and time prepared (24-hour clock).
8	Approved by Incident Commander Name Signature Date/Time	In the case of a Unified Command, one IC may approve the ICS 202. If additional IC signatures are used, attach a blank page.







1. Incident Name	2. Operational Period to be	CG IAP	
B1700 PHENOL RELEASE	From: 0900 02MAR2014	To: 0900 04MAR2014	COVER SHEET
3. Approved by Incident Commander(s):			
ORG NAME DOW			
		, 4.11214.11111.1111.1111.1111.1111.1111.	
<u>EPA</u>			
TCEQ			
USCG			
			····
	NT ACTION PL elow are included in this Incider		
☐ ICS 202-CG (Response Objectives)			
ICS 203-CG (Organization List) – OR – ICS 20	7-CG (Organization Chart)		
ICS 204-CGs (Assignment Lists) One Copy each of any ICS 204-CG attachmen	ts:		
ICS 205-CG (Communications Plan)	-		
ICS 206-CG (Medical Plan)			
ICS 208-CG (Site Safety Plan) or Note SSP Lo	cation		
Map/Chart			
Weather forecast / Tides/Currents			
Other Attachments			
4. Prepared by:	Date/Time		
Keith Naker, USCG	02MAR2014 152	26	

Unified Command Meeting: 3/2/14 14:00

Supplement to the ICS 202 for the Operational Period March 2, 9am thru March 4, 9am. Section 4: Operational Period Command Emphasis

Containment - Completed

- Refined numbers: 46,500lbs = 5,314 gallons
- Hot Zone cleanup started. Collecting water in Frac Tank.

Diversion:

Clean Water - Going to outfall 102: 2 pumps at B-13, 1 Pump at NW corner B-13, - Going to outfall 403: 1 pumps for SE B-15

403 Basin Decontamination - Pumped out based to remove contaminated water (Conc. in btm of empty basin was 50 ppm). Refilling with clean water from the east (Conc. is at 10 - 20 ppm). Will put back in service at 1 - 2 Mgpm. Once this reaches the 003 outfall, conc will be below 0.5 ppm

403 Contaminated Water Evacuation:

B-300 Dorr Pond - # 3 pond about 50% emptied. Running 3 pumps. #4 pond dewatered.

- 1. Sludge Line Completed tie points this morning. Start pumping this afternoon
- 2. PO Hot water pipeline Hoses being finalized from B-13 to Dorr pond. Hot tap line today. Estimated flow will be 6-7 Mgpm

Plant A Storage (6 MM gallons): 4 days out to complete

- 1. Pipeline to Plt A (~800,000 gpd)— need fab pipe to run across sea water canal, other crossings
- 2. Cumen Tanks pulled roof and completed inspection. Tank is good.
- 3. Barges on-going and will coordinate all activities through coast guard.

<u>Treatment</u> – Carbon Beds: 24 hour soak time required to maximize effectiveness. Start soaking as soon as vessels are set.

- 1. Siemens: 600 gpm: North side of 403 Basin. Vessels are set on rig mats.
- 2. Baker: 2 x 600 gpm: Laydown yard. Preparing site on South side of 403 basin for rig mats
- 3. Long term: once 403 canal is back in service, carbon beds will be moved to Dorr ponds to treat contained contaminated material.

<u>Cooling Towers</u> – Need to cycle other CTs to keep all systems good.

Analytical - getting round of samples this morning.

Weather: Rain Forecast 60 – 90% between 20:00 – 24:00. Continuing work to segregate contaminated Jaleu In Joy Que USCG Ale W. Alga EPA Star Rom BEDEM Mark Kuther DOW IC Faith Cothe TOEQ 403 canal.

Unified Command Approval Signatures:

INCIDENT OBJECTIVES (ICS 202)

1. Incident Name:		2. Operational	Date From: 3/2/2014	Date To: 3/4/2014	
B-1700 Phenol Spill		Period:	Time From: 0900	Time To: 0900	
3. Objective(s):			<u> </u>		
Provide for the safety, s	security and welfare	of citizens and resp	onse personnel.		
Conduct efforts to effect	Conduct efforts to effectively clean up and dispose of spilled product.				
•		-	osal of waste from the in-	cident.	
Identify and maximize p		-	ve areas.		
Develop and implemen	-	· .			
=			the makeup of Unified Co	ommand.	
Keep the public, stakeh		•	inse activities.		
Return the plant to plan	ined operating capac	ity.			
4. Operational Period	Command Emphas	is:			
Command emp	hasis is to remove th	reat due to the phe	enol spill and protect the	safety and welfare of citizens	
and response p	personnel by trying to	execute the follow	ring:		
1. Dewater B-300	Dorr Pond #3				
2. Uncontaminate					
3. Evacuate 403 (
General Situational Awa	areness				
		act as a safety offic	er and have the ability to	o stop any operation that may be	
considered unsafe as s				, stop any operation man may be	
5. Site Safety Plan Re	-				
Approved Site Safe	ty Plan(s) Located a	at: The Dow Chem	nical Site Emergency Pla	n - DCC EOC	
6. Incident Action Plan	n (the items checked	below are included	d in this Incident Action F	lan):	
☐ ICS 203	☑ ICS 207		Other Attachments:		
™ ICS 204	☑ ICS 208		$_{\Pi}$ 1CS ∂	30 MILETING SCHEOVIT	
_⊠ ICS 205	Map/Chart				
☐ ICS 205A	Weather Forec	ast/Tides/Currents			
☑ ICS 206					
-			Wheel and them		
7. Prepared by: Na	me:MSTZ JASON ST	FILE Position/Titl	e: XP PLANNING CHILL	Signature:	
8. Approved by Incide		Name:	Signatu	/	
ICS 202	IAP Page	Date/Time: D	•		

ICS 202 Incident Objectives

Purpose. The Incident Objectives (ICS 202) describes the basic incident strategy, incident objectives, command emphasis/priorities, and safety considerations for use during the next operational period.

Preparation. The ICS 202 is completed by the Planning Section following each Command and General Staff meeting conducted to prepare the Incident Action Plan (IAP). In case of a Unified Command, one Incident Commander (IC) may approve the ICS 202. If additional IC signatures are used, attach a blank page.

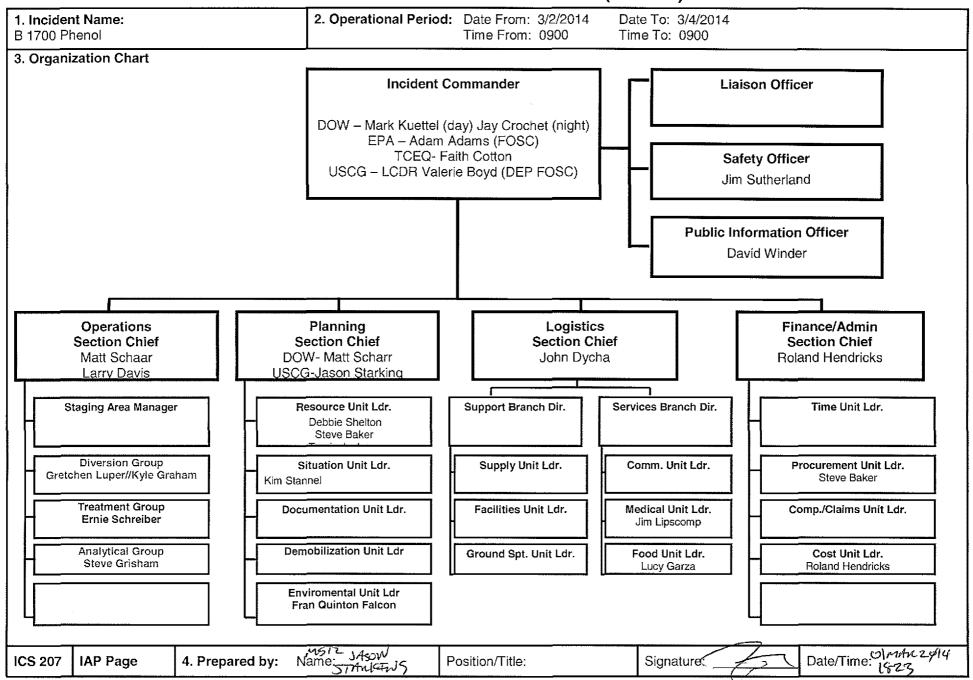
Distribution. The ICS 202 may be reproduced with the IAP and may be part of the IAP and given to all supervisory personnel at the Section, Branch, Division/Group, and Unit levels. All completed original forms must be given to the Documentation Unit.

- The ICS 202 is part of the IAP and can be used as the opening or cover page.
- If additional pages are needed, use a blank ICS 202 and repaginate as needed.

Block Number	Block Title	Instructions
1	Incident Name	Enter the name assigned to the incident. If needed, an incident number can be added.
2	Operational Period Date and Time From Date and Time To	Enter the start date (month/day/year) and time (using the 24-hour clock) and end date and time for the operational period to which the form applies.
3	Objective(s)	Enter clear, concise statements of the objectives for managing the response. Ideally, these objectives will be listed in priority order. These objectives are for the incident response for this operational period as well as for the duration of the incident. Include alternative and/or specific tactical objectives as applicable. Objectives should follow the SMART model or a similar approach: Specific – Is the wording precise and unambiguous? Measurable – How will achievements be measured? Action-oriented – Is an action verb used to describe expected accomplishments? Realistic – Is the outcome achievable with given available resources? Time-sensitive – What is the timeframe?
4	Operational Period Command Emphasis	Enter command emphasis for the operational period, which may include tactical priorities or a general weather forecast for the operational period. It may be a sequence of events or order of events to address. This is not a narrative on the objectives, but a discussion about where to place emphasis if there are needs to prioritize based on the Incident Commander's or Unified Command's direction. Examples: Be aware of falling debris, secondary explosions, etc.
	General Situational Awareness	General situational awareness may include a weather forecast, incident conditions, and/or a general safety message. If a safety message is included here, it should be reviewed by the Safety Officer to ensure it is in alignment with the Safety Message/Plan (ICS 208).
5	Site Safety Plan Required? Yes No	Safety Officer should check whether or not a site safety plan is required for this incident.
	Approved Site Safety Plan(s) Located At	Enter the location of the approved Site Safety Plan(s).

Block Muniber	Block Title	Instructions
6	Incident Action Plan (the items checked below are included in this Incident Action Plan): ICS 203 ICS 204 ICS 205 ICS 205 ICS 205 ICS 206 ICS 207 ICS 208 Map/Chart Weather Forecast/ Tides/Currents Other Attachments:	Check appropriate forms and list other relevant documents that are included in the IAP. ICS 203 – Organization Assignment List ICS 204 – Assignment List ICS 205 – Incident Radio Communications Plan ICS 205A – Communications List ICS 206 – Medical Plan ICS 207 – Incident Organization Chart ICS 208 – Safety Message/Plan
7	Prepared by Name Position/Title Signature	Enter the name, ICS position, and signature of the person preparing the form. Enter date (month/day/year) and time prepared (24-hour clock).
8	Approved by Incident Commander Name Signature Date/Time	In the case of a Unified Command, one IC may approve the ICS 202. If additional IC signatures are used, attach a blank page.

INCIDENT ORGANIZATION CHART (ICS 207)



ICS 207 Incident Organization Chart

Purpose. The Incident Organization Chart (ICS 207) provides a **visual wall chart** depicting the ICS organization position assignments for the incident. The ICS 207 is used to indicate what ICS organizational elements are currently activated and the names of personnel staffing each element. An actual organization will be event-specific. The size of the organization is dependent on the specifics and magnitude of the incident and is scalable and flexible. Personnel responsible for managing organizational positions are listed in each box as appropriate.

Preparation. The ICS 207 is prepared by the Resources Unit Leader and reviewed by the Incident Commander. Complete only the blocks where positions have been activated, and add additional blocks as needed, especially for Agency Representatives and all Operations Section organizational elements. For detailed information about positions, consult the NIMS ICS Field Operations Guide. The ICS 207 is intended to be used as a wall-size chart and printed on a plotter for better visibility. A chart is completed for each operational period, and updated when organizational changes occur.

Distribution. The ICS 207 is intended to be **wall mounted** at Incident Command Posts and other incident locations as needed, and is not intended to be part of the Incident Action Plan (IAP). All completed original forms must be given to the Documentation Unit.

- The ICS 207 is intended to be **wall mounted** (printed on a plotter). Document size can be modified based on individual needs.
- Also available as 8½ x 14 (legal size) chart.
- ICS allows for organizational flexibility, so the Intelligence/Investigative Function can be embedded in several different places within the organizational structure.
- Use additional pages if more than three branches are activated. Additional pages can be added based on individual need (such as to distinguish more Division/Groups and Branches as they are activated).

Block Number	Block Title	Instructions
1	Incident Name	Print the name assigned to the incident.
2	Operational Period Date and Time From Date and Time To	Enter the start date (month/day/year) and time (using the 24-hour clock) and end date and time for the operational period to which the form applies.
3	Organization Chart	 Complete the incident organization chart. For all individuals, use at least the first initial and last name. List agency where it is appropriate, such as for Unified Commanders. If there is a shift change during the specified operational period, list both names, separated by a slash.
4	Prepared by Name Position/Title Signature Date/Time	Enter the name, ICS position, and signature of the person preparing the form. Enter date (month/day/year) and time prepared (24-hour clock).

ASSIGNMENT LIST (ICS 204)

1. Incident Name:	1. Incident Name: 2. Operational Period: Date From: Date Date To: Date			3.	
B 1700 Phenol 5					Branch:
4. Operations	<u>ριττ</u> Nam			Contact Number(s)	Division:
Personnel:		_			
Operations Section C	hief: كيسيري	es Eland	, M57	- _{2.} XXX-XXX-XXXX	Group: Diversion Group
Branch Dire	ctor:			XXX-XXX-XXXX	Staging
Division/G	roup	.	/ i	XXX-XXX-XXXX - Lupher	Area:
5. Resources Assign				- Lupice	
Resource Identifier	Leader		# of Persons	Contact (e.g., phone, pager, radio frequency, etc.)	Reporting Location, Special Equipment and Supplies, Remarks, Notes, Information
	John Di	ycha			
	conter	ol tear	B.	-13 IL NE corner o	F plant B.
7. Special Instruction	ns:				
		•		umbers needed for this assignr	•
Name Gretchen Luphe	/Fun	ction Prim		ontact: indicate cell, pager, or	radio (frequency/system/channel)
-uceener work	ر <u>ر</u> /	cols was	9		
	/				
	/				1
9. Prepared by: Na	ame: Jan	~e5 A. E1	200	Position/Title: Ops. Sec. Chi	Signature: A 22
ICS 204		Page		nte/Time: Date OIMARIY	1751
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ICS 204 Assignment List

Purpose. The Assignment List(s) (ICS 204) informs Division and Group supervisors of incident assignments. Once the Command and General Staffs agree to the assignments, the assignment information is given to the appropriate Divisions and Groups.

Preparation. The ICS 204 is normally prepared by the Resources Unit, using guidance from the Incident Objectives (ICS 202), Operational Planning Worksheet (ICS 215), and the Operations Section Chief. It must be approved by the Incident Commander, but may be reviewed and initialed by the Planning Section Chief and Operations Section Chief as well.

Distribution. The ICS 204 is duplicated and attached to the ICS 202 and given to all recipients as part of the incident Action Plan (IAP). In some cases, assignments may be communicated via radio/telephone/fax. All completed original forms must be given to the Documentation Unit.

- The ICS 204 details assignments at Division and Group levels and is part of the IAP.
- · Multiple pages/copies can be used if needed.
- If additional pages are needed, use a blank ICS 204 and repaginate as needed.

Block Number	Block Title	Instructions		
1	Incident Name	Enter the name assigned to the incident.		
2	Operational Period Date and Time From Date and Time To	Enter the start date (month/day/year) and time (using the 24-hour clock) and end date and time for the operational period to which the form applies.		
3	Branch Division Group Staging Area	This block is for use in a large IAP for reference only. Write the alphanumeric abbreviation for the Branch, Division, Group, and Staging Area (e.g., "Branch 1," "Division D," "Group 1A") in large letters for easy referencing.		
4	 Operations Personnel Name, Contact Number(s) Operations Section Chief Branch Director Division/Group Supervisor 	Enter the name and contact numbers of the Operations Section Chief, applicable Branch Director(s), and Division/Group Supervisor(s).		
5	Resources Assigned	Enter the following information about the resources assigned to the Division or Group for this period:		
	Resource Identifier	The identifier is a unique way to identify a resource (e.g., ENG-13, IA-SCC-413). If the resource has been ordered but no identification has been received, use TBD (to be determined).		
	Leader	Enter resource leader's name.		
	# of Persons	Enter total number of persons for the resource assigned, including the leader.		
	Contact (e.g., phone, pager, radio frequency, etc.)	Enter primary means of contacting the leader or contact person (e.g., radio, phone, pager, etc.). Be sure to include the area code when listing a phone number.		
5 (continued)	Reporting Location, Special Equipment and Supplies, Remarks, Notes, Information	Provide special notes or directions specific to this resource. If required, add notes to indicate: (1) specific location/time where the resource should report or be dropped off/picked up; (2) special equipment and supplies that will be used or needed; (3) whether or not the resource received briefings; (4) transportation needs; or (5) other information.		

ASSIGNMENT LIST (ICS 204)

1. Incident Name:		2. Operational Period: Date From: Date Date To: Date			3.
			From: HHMM Time To: HHMM		Branch:
4. Operations Personnel:	Nam			Contact Number(s)	Division:
Operations Section Ch	ief: Jame	es Elan	I MST	Z XXX-XXX-XXXX	Group: Diversion Group
Branch Direc		<u></u>	<u>a, ,</u>	XXX-XXX-XXXX	
Division/Gro Supervis	oup sor: John	Dre	12	XXX-XXX-XXX	Staging Area:
5. Resources Assigne					
	Leader		# of Persons	Contact (e.g., phone, pager, radio frequency, etc.)	Reporting Location, Special Equipment and Supplies, Remarks, Notes, Information
	John B	A Ducha			
		-			

			***·		
					
			,		
6. Work Assignments	:				
Work out logistics for barge loading option.					
7. Special Instructions:					
· ·		-		umbers needed for this assignmentant, indicate call, pages, or	•
John Bycha	/Fund	roup bea		omaci: indicate cell, pager, or	radio (frequency/system/channel)
John By Dyone	/	p .co	106)		Alaba
	1				
	/				Λ
9. Prepared by: Nar	ne: Jzwe	s A. Eleo	nd	Position/Title: Ops. Sec. Chi	Signature: /- 9.82
ICS 204	IAP			nte/Time: Date o(MAQZ4)4	/ 1755
				,	/

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1	Incident Name	Enter the name assigned to the incident.		
2	Operational Period Date and Time From Date and Time To	Enter the start date (month/day/year) and time (using the 24-hour clock) and end date and time for the operational period to which the form applies.		
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	Leader	Enter resource leader's name.		
	# of Persons	Enter total number of persons for the resource assigned, including the leader.		
	Contact (e.g., phone, pager, radio frequency, etc.)	Enter primary means of contacting the leader or contact person (e.g., radio, phone, pager, etc.). Be sure to include the area code when listing a phone number.		
5 (continued)	Reporting Location, Special Equipment and Supplies, Remarks, Notes, Information	Provide special notes or directions specific to this resource. If required, add notes to indicate: (1) specific location/time where the resource should report or be dropped off/picked up; (2) special equipment and supplies that will be used or needed; (3) whether or not the resource received briefings; (4) transportation needs; or (5) other information.		

ASSIGNMENT LIST (ICS 204)

1. Incident Name:		2. Operational Period: Date From: Date Date To: Date			3.
B-1700 Pheno!				Branch:	
4. Operations Name Contact Number(s)				Division:	
Personnel:					
Operations Section (Chief: ၂ _{ဥာက}	es Elano	MSTZ	XXX-XXX-XXXX	Group: Analytical Group
Branch Dire	ector:			XXX-XXX-XXXX	Staging
Division/G Superv	iroup visor: کلعب	ne Gris	nam	XXX-XXX-XXXX	Area:
5. Resources Assig					
Resource Identifier	Leader		# of Persons	Contact (e.g., phone, pager, radio frequency, etc.)	Reporting Location, Special Equipment and Supplies, Remarks, Notes, Information
_	Steve a	risham			
			<u> </u>		
6. Work Assignments: Update sample plan/sampling points.					
7. Special Instructions:					
8. Communications (radio and/or phone contact numbers needed for this assignment):					
Name /Function Primary Contact: indicate cell, pager, or radio (frequency/system/channel)					
Steve Grisham / Group leader					
1					
	1			10 T	
9. Prepared by: N	9. Prepared by: Name: James A. Eland Position/Title: ops. Jec. chief Signature:				
ICS 204		Page		ite/Time: Date စւտգրել	11747

ICS 204 Assignment List

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5	Resources Assigned	Enter the following information about the resources assigned to the Division or Group for this period:
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	Leader	Enter resource leader's name.
	# of Persons	Enter total number of persons for the resource assigned, including the leader.
	Contact (e.g., phone, pager, radio frequency, etc.)	Enter primary means of contacting the leader or contact person (e.g., radio, phone, pager, etc.). Be sure to include the area code when listing a phone number.
5 (continued)	Reporting Location, Special Equipment and Supplies, Remarks, Notes, Information	Provide special notes or directions specific to this resource. If required, add notes to indicate: (1) specific location/time where the resource should report or be dropped off/picked up; (2) special equipment and supplies that will be used or needed; (3) whether or not the resource received briefings; (4) transportation needs; or (5) other information.

ASSIGNMENT LIST (ICS 204)

1. Incident Name: 2. Operational Period: Date From: Date Date			3.			
B 1700 Phenol Spill	Time From: HH		Branch:			
4. Operations Nam	<u>l</u> 1 <u>e</u>	Division:				
Operations Section Chief: Jen	Group: Treatment Group					
Branch Director:	ACS CIENC, PO	XXX-XXX-XXXX				
Division/Group	4.	XXX-XXX-XXXX	Staging Area:			
Supervisor: Erw			7.102.			
5. Resources Assigned:	# of Persons	Contact (e.g., phone, pager,	Reporting Location, Special Equipment and Supplies, Remarks,			
Resource Identifier Leader		radio frequency, etc.)	Notes, Information			
Frnie '	Schreiber					
·						
6. Work Assignments:						
Pumpost 403 625,	n through	chercoal beds.				
7 Special Instructional						
7. Special Instructions:						
8. Communications (radio and/o			nent): radio (frequency/system/channel)			
Ernse Schreiber / G	roup leader					
/						
9. Prepared by: Name: Jame.		Position/Title: Ops. Sec. Chie				
ICS 204 IAP	Page Da	ate/Time: Date O(M4R14/	1745			

ICS 204 Assignment List

Purpose. The Assignment List(s) (ICS 204) informs Division and Group supervisors of incident assignments. Once the Command and General Staffs agree to the assignments, the assignment information is given to the appropriate Divisions and Groups.

Preparation. The ICS 204 is normally prepared by the Resources Unit, using guidance from the Incident Objectives (ICS 202), Operational Planning Worksheet (ICS 215), and the Operations Section Chief. It must be approved by the Incident Commander, but may be reviewed and initialed by the Planning Section Chief and Operations Section Chief as well.

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- The ICS 204 details assignments at Division and Group levels and is part of the IAP.
- Multiple pages/copies can be used if needed.
- If additional pages are needed, use a blank ICS 204 and repaginate as needed.

Block Number	Block Title	Instructions		
1	Incident Name	Enter the name assigned to the incident.		
2	Operational Period Date and Time From Date and Time To	Enter the start date (month/day/year) and time (using the 24-hour clock) and end date and time for the operational period to which the form applies.		
3	Branch Division Group Staging Area	This block is for use in a large IAP for reference only. Write the alphanumeric abbreviation for the Branch, Division, Group, and Staging Area (e.g., "Branch 1," "Division D," "Group 1A") in large letters for easy referencing.		
4	Operations Personnel Name, Contact Number(s) Operations Section Chief Branch Director Division/Group Supervisor	Enter the name and contact numbers of the Operations Section Chief, applicable Branch Director(s), and Division/Group Supervisor(s).		
5	Resources Assigned	Enter the following information about the resources assigned to the Division or Group for this period:		
	Resource Identifier	The identifier is a unique way to identify a resource (e.g., ENG-13, IA-SCC-413). If the resource has been ordered but no identification has been received, use TBD (to be determined).		
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	Contact (e.g., phone, pager, radio frequency, etc.)	Enter primary means of contacting the leader or contact person (e.g., radio, phone, pager, etc.). Be sure to include the area code when listing a phone number.		
5 (continued)	Reporting Location, Special Equipment and Supplies, Remarks, Notes, Information	Provide special notes or directions specific to this resource. If required, add notes to indicate: (1) specific location/time where the resource should report or be dropped off/picked up; (2) special equipment and supplies that will be used or needed; (3) whether or not the resource received briefings; (4) transportation needs; or (5) other information.		

ASSIGNMENT LIST (ICS 204)

1. Incident Name: 2. Operational Period: Date From: Date Date To: Date			3.		
B1700 Phenol?	Saill	Time From:			Branch:
4. Operations	Nam	<u> </u>	. ,,	Contact Number(s)	Division:
Personnel:					
Operations Section (Chief: <u>Jam</u>	es Elend,	MS	TZ_ XXX-XXX-XXXX	Group: Diversion Group
Branch Dire				XXX-XXX-XXXX	Staging
Division/G		<i>(</i>)		XXX-XXX-XXXX	Area:
5. Resources Assign		L Graham			
			Persons	Contact (e.g., phone, pager,	Reporting Location, Special Equipment and Supplies, Remarks,
Resource Identifier	Leader	i	<u>а</u>	radio frequency, etc.)	Notes, Information
	Kyle ar	iham		(979) 824-5530	
	.[-	
				A CONTRACTOR OF THE PARTY OF TH	
				110100	
	-				
6. Work Assignment	ts:				
Evacuate 403					
LANCONEC 103	ر الين الناري				
7. Special Instructio	ns:				
1				ımbers needed for this assignr	
Name	<u>/Fun</u> /	ction Primar	ry Co	ontact: Indicate cell, pager, or	radio (frequency/system/channel)
	1				
	/				
9. Prepared by: N	ame: کیسه	s A. Eland	***	Position/Title: ا	Signature; A.E.
ICS 204		Page	Da	te/Time: Date OLMARIY	1 /
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ICS 204 Assignment List

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Notes:

- The ICS 204 details assignments at Division and Group levels and is part of the IAP.
- Multiple pages/copies can be used if needed.
- If additional pages are needed, use a blank ICS 204 and repaginate as needed.

Block Number	Block Title	Instructions				
1	Incident Name	Enter the name assigned to the incident. Enter the start date (month/day/year) and time (using the 24-hour clock) and end date and time for the operational period to which the form applies.				
2	Operational Period Date and Time From Date and Time To					
3	Branch Division Group Staging Area	This block is for use in a large IAP for reference only. Write the alphanumeric abbreviation for the Branch, Division, Group, and Staging Area (e.g., "Branch 1," "Division D," "Group 1A") in large letters for easy referencing.				
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5	Resources Assigned	Enter the following information about the resources assigned to the Division or Group for this period:				
	Resource Identifier	The identifier is a unique way to identify a resource (e.g., ENG-13, IA-SCC-413). If the resource has been ordered but no identification has been received, use TBD (to be determined).				
	• Leader	Enter resource leader's name.				
	# of Persons	Enter total number of persons for the resource assigned, including the leader.				
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5 (continued)	Reporting Location, Special Equipment and Supplies, Remarks, Notes, Information	Provide special notes or directions specific to this resource. If required, add notes to indicate: (1) specific location/time where the resource should report or be dropped off/picked up; (2) special equipment and supplies that will be used or needed; (3) whether or not the resource received briefings; (4) transportation needs; or (5) other information.				

ASSIGNMENT LIST (ICS 204)

1. Incident Name:	2. Operational Period: Date From: OamADate To: Date Tournel			3.			
B1700 Phenols	Time From: HHMMA Time To: HHMM			Branch:			
4. Operations	Nam			Contact Number(s)	Division:		
Personnel:							
		nes Ela	end, M	STZ XXX-XXX	Group: Diversion Group		
-Branch Dire	***************************************			XXX-XXX-XXXX	Staging		
Division/G Superv		e Gra	nam	XXX-XXX-XXXX	Area:		
5. Resources Assign	ned:		SUS		Reporting Location, Special		
Resource Identifier	Leader		# of Persons	Contact (e.g., phone, pager, radio frequency, etc.)	Equipment and Supplies, Remarks, Notes, Information		
	Kyle Gr	gham		(979) 824 - 5530			
		4.4. A.4.4.4. A.			A STATE OF THE STA		
					· · · · · · · · · · · · · · · · · · ·		

		<u>. </u>					
6. Work Assignments: Dewater dorr pond #3.							
7. Special Instructions:							
				umbers needed for this assignr			
Name Kyte Graham	/Fun-	ction Pr کدے Sدوہ		ontact: indicate cell, pager, or easer (979) 824	radio (frequency/system/channel)		
The Granam	1	M- SCEN	۷	<u> </u>			
	1						
	/						
9. Prepared by: N	ame: Jame	s A. Ele	md	Position/Title: ٥٩٥ څود دله	Signature: J. A. 302		
ICS 204	***************************************	Page		ate/Time: Date OIMARZOIU	1/1735		
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Purpose. The Assignment List(s) (ICS 204) informs Division and Group supervisors of incident assignments. Once the Command and General Staffs agree to the assignments, the assignment information is given to the appropriate Divisions and Groups.

Preparation. The ICS 204 is normally prepared by the Resources Unit, using guidance from the Incident Objectives (ICS 202), Operational Planning Worksheet (ICS 215), and the Operations Section Chief. It must be approved by the Incident Commander, but may be reviewed and initialed by the Planning Section Chief and Operations Section Chief as well.

Distribution. The ICS 204 is duplicated and attached to the ICS 202 and given to all recipients as part of the incident Action Plan (IAP). In some cases, assignments may be communicated via radio/telephone/fax. All completed original forms must be given to the Documentation Unit.

Notes:

- The ICS 204 details assignments at Division and Group levels and is part of the IAP.
- Multiple pages/copies can be used if needed.
- If additional pages are needed, use a blank ICS 204 and repaginate as needed.

		,				
Block Number	Block Title	Instructions				
1	Incident Name	Enter the name assigned to the incident.				
2	Operational Period	Enter the start date (month/day/year) and time (using the 24-hour clock) and end date and time for the operational period to which the form applies.				
3	Branch	This block is for use in a large IAP for reference only.				
į	Division Group Staging Area	Write the alphanumeric abbreviation for the Branch, Division, Group, and Staging Area (e.g., "Branch 1," "Division D," "Group 1A") in large letters for easy referencing.				
4	Operations Personnel Name, Contact Number(s) Operations Section Chief Branch Director Division/Group Supervisor	Enter the name and contact numbers of the Operations Section Chief, applicable Branch Director(s), and Division/Group Supervisor(s).				
5	Resources Assigned	Enter the following information about the resources assigned to the Division or Group for this period:				
	Resource Identifier	The identifier is a unique way to identify a resource (e.g., ENG-13, IA-SCC-413). If the resource has been ordered but no identification has been received, use TBD (to be determined).				
	Leader	Enter resource leader's name.				
	# of Persons	Enter total number of persons for the resource assigned, including the leader.				
	Contact (e.g., phone, pager, radio frequency, etc.)	Enter primary means of contacting the leader or contact person (e.g., radio, phone, pager, etc.). Be sure to include the area code when listing a phone number.				
5 (continued)	Reporting Location, Special Equipment and Supplies, Remarks, Notes, Information	Provide special notes or directions specific to this resource. If required, add notes to indicate: (1) specific location/time where the resource should report or be dropped off/picked up; (2) special equipment and supplies that will be used or needed; (3) whether or not the resource received briefings; (4) transportation needs; or (5) other information.				

COMMUNICATIONS LIST (ICS 205A)

1. Incident Name:	2. Operational	Date From: 3/1/2014)	Date To: By/4/2014			
B-1700 PHZNOL SPILL		3/2-/2014 Time From: 刊版例の	Time To: HOMPAD D			
3. Basic Local Communications Inf	ormation:					
			of Contact			
	Name (Alphabetized)	(phone, pager, cell, etc.)				
	ohn DYCHA	(281) 633-645				
	M SUTHERLAN	(979) 230-835				
Immediate Response LA	IRRY DAVIS	(979) 482 -462				
- lor	mie Shoemaker	(979) 482 -464	(8			
706		(979) 417-162	23			
OPS. Section Chief M.	ATT SCHARR		?3			
	ebbie SHelton	(979) 248-64S				
1/0	ruis Jackson	(832) 385-826	6			
Finance Section Chief St	Teve baker	(979) 824-52	25			
	abid winder	(979) 238-162				
Unified Commonday M.	ARK KNETTEll	(979) 417-3117				
(EPA) /	John Adams	(214) 202-69	57			
TCEO) 1	Faith Cotton	(7/3) 540-173	35			
(usca) V	Valerie Boyd, LCDR	(409) G8Z-176				
(Bu) Jo	y CrocheT	(832) 221 - Oa	24			
Diversion Goup K	YE Graham	(979) 824-553	30			
			100			
			· · · · · · · · · · · · · · · · · · ·			
4. Prepared by: Name:പ്രേറ്റ സ്	CAN Position/Title:	: DOCUMBNITHTON Signa LEADER	ature: 11 16h LTJ			
ICS 205A IAP Page	Date/Time:	Date				

ICS 205A Communications List

Purpose. The Communications List (ICS 205A) records methods of contact for incident personnel. While the Incident Radio Communications Plan (ICS 205) is used to provide information on all radio frequencies down to the Division/Group level, the ICS 205A indicates all methods of contact for personnel assigned to the incident (radio frequencies, phone numbers, pager numbers, etc.), and functions as an incident directory.

Preparation. The ICS 205A can be filled out during check-in and is maintained and distributed by Communications Unit personnel. This form should be updated each operational period.

Distribution. The ICS 205A is distributed within the ICS organization by the Communications Unit, and posted as necessary. All completed original forms must be given to the Documentation Unit. If this form contains sensitive information such as cell phone numbers, it should be clearly marked in the header that it contains sensitive information and is not for public release.

Notes:

- The ICS 205A is an optional part of the Incident Action Plan (IAP).
- This optional form is used in conjunction with the ICS 205.
- If additional pages are needed, use a blank ICS 205A and repaginate as needed.

Block Number	Block Title	Instructions				
1	Incident Name	Enter the name assigned to the incident.				
2	Operational PeriodDate and Time FromDate and Time To	Enter the start date (month/day/year) and time (using the 24-hour clock) and end date and time for the operational period to which the form applies.				
3	Basic Local Communications Information	Enter the communications methods assigned and used for personnel by their assigned ICS position.				
	Incident Assigned Position	Enter the ICS organizational assignment.				
	Name	Enter the name of the assigned person.				
	Method(s) of Contact (phone, pager, cell, etc.)	For each assignment, enter the radio frequency and contact number(s) to include area code, etc. If applicable, include the vehicle license or ID number assigned to the vehicle for the incident (e.g., HAZMAT 1, etc.).				
4	Prepared by Name Position/Title Signature Date/Time	Enter the name, ICS position, and signature of the person preparing the form. Enter date (month/day/year) and time prepared (24-hour clock).				

Angleton/Danbury Hospital 265-3368 849-7721 132 Hospital Drive Angleton, TX 77515

Brazosport Regional Hospital – Lake Jackson PAY PHONE IN EMERG WAITING ROOM: 297-9145 100 Medical Drive Lake Jackson, TX 77566 Dow Ring Down #: 297-6482 FAX #: 299-2878

Ambulance Run Report Log:

Incident Type:

Location:

Number of Patients:

Chief Complaint:

Caller Name:

Caller Phone #:

Time: n/a

Patient Information:

Patient Company:

Product Involved:

Time Site Leadership Notification made:

Time amb in service:

Time amb on scene:

Time amb departed scene:

Patient transferred to:

Transfer code:

Time & Name of Dow Nurse Notification:

Patient Refusal Y/N:

Time amb at facility:

Time amb departed facility:

Time Ambulance Run Notification made:

5-6's called?:

x2112 Called?:

HQ's called 5-6's Y/N:

Ambulance Run Sheet Times:

Responder Personnel:

Additional Info:

Environmental Log: Incident Type: Level: Caller Name: Call back #: Location: Time Notified: Time Occurred (if different): Company Affilation: Product: Amount: Duration: Wind Direction and Speed: Temp: 5-6's Called, Y/N: HQ's called 5-6's Y/N: Horns sounded: Y/N: Time Site Leadership Notification made: Spill, Y/N: Contained, Y/N: How Contained: Team Leaders notified: Units Responding: Time first Unit on scene: Is Ambulance Run related Y/N: Location Ambulance Runs: Total Number of Patients: Chief Complaint: SEM Notified, Y/N: Time SEM Notified: XpressAlert Acctivation: What Group or Personnel contacted?: I/C initiated by and time: CAER Recorder "Off Line": CAER Message Changed, Y/N: CAER What Message put on Recorder: CAER Recorder back "On Line": CAER Recorder Basic Message: CAER Sirens and Time of Activation: CAER BCSO and Surrounding PD's Notifiction: CAER Road Blocks requested: CAER EOPC/EOC Notification and Activation: CAER P/R Notification: CAER FirstCall Activation: Time up or down-graded and Level: Mutual Aid Request: By Who and Contact Info:

Who approved Mutual Aid?:

Time I/C standing down: Time Units clear of scene:

Time All Clear:

Additional Info:

SAFETY MESSAGE/PLAN (ICS 208)

1. Incident Name:	2. Operational	Date From:	3/2/2014	Date To: 3/4/2014
B-1700 Phenol Spill	Period:	Time From:	0900	Time To: 0900
3. Safety Message/Expanded Safety Mes	sage. Safety Plan	. Site Safetv	Plan:	
3. Safety Message/Expanded Saf	uth side of the B-17 k.	00 block alor or a contrac Emergency	ng Entrance Roa tor representati Services must l	ve at all times for safety. In be contacted. From a Dow
emergency response on a cell phone by dia				
	Ü			
Any personnel or visitors must check in with hot zone.	the Deputy Opera	itions Section	Chief or his de	signee before entering the
Prior to any work commencing, the opropria procedures and policies.	te Dow personnel	must be cont	acted for a Safe	Hot work permit per Dow
4. Site Safety Plan Required? Yes will Approved Site Safety Plan(s) Located	No □ At:			
5. Prepared by: Name: MAT SHAA	Position/Tit	le: Es NS 0	PS LEADISK Sig	gnature:
ICS 208 IAP Page	Date/Time:	Ottenan 201	4 1825	
			· · · · · · · · · · · · · · · · · · ·	

ICS 208 Safety Message/Plan

Purpose. The Safety Message/Plan (ICS 208) expands on the Safety Message and Site Safety Plan.

Preparation. The ICS 208 is an optional form that may be included and completed by the Safety Officer for the Incident Action Plan (IAP).

Distribution. The ICS 208, if developed, will be reproduced with the IAP and given to all recipients as part of the IAP. All completed original forms must be given to the Documentation Unit.

Notes:

- The ICS 208 may serve (optionally) as part of the IAP.
- Use additional copies for continuation sheets as needed, and indicate pagination as used.

Elock Number	Block Title	Instructions			
1	Incident Name	Enter the name assigned to the incident.			
2	Operational PeriodDate and Time FromDate and Time To	Enter the start date (month/day/year) and time (using the 24-hour clock) and end date and time for the operational period to which the form applies.			
3	Safety Message/Expanded Safety Message, Safety Plan, Site Safety Plan	Enter clear, concise statements for safety message(s), priorities, and key command emphasis/decisions/directions. Enter information such as known safety hazards and specific precautions to be observed during this operational period. If needed, additional safety message(s should be referenced and attached.			
4	Site Safety Plan Required? Yes No	Check whether or not a site safety plan is required for this incident.			
	Approved Site Safety Plan(s) Located At	Enter where the approved Site Safety Plan(s) is located.			
5	Prepared by Name Position/Title Signature Date/Time	Enter the name, ICS position, and signature of the person preparing the form. Enter date (month/day/year) and time prepared (24-hour clock).			

1. Incident Name B 1700 Phenol Release		2. (Operational Period (Date/Time)		DAILY MEETING SCHEDULE		
		_	·	900 04MAR14	ICS 230-CG		
3. Meeting So	hedule (Commonly-	held	meetings are included)				
Date/ Time	Meeting Name		Purpose	Attendees	Location		
3/2/14 1400	Unified Command Objectives Meeting		Review/ identify objectives for the next operational period.	Unified Command memi	bers		
3/2/1500	Command & General Staff Meeting		IC/UC gives direction to Command & General staff including incident objectives and priorities	IC/UC, Command & Ger Staff	neral		
	Tactics Meeting		Develop/Review primary and alternate Strategies to meet Incident Objectives for the next Operational Period.	PSC, OSC, LSC, RESL & SITL			
	Planning Meeting		Review status and finalize strategies and assignments to meet Incident Objectives for the next Operational Period.	Determined by the IC/U	C EOC		
	Operations Briefin	g	Present IAP and assignments to the Supervisors / Leaders for the next Operational Period.	IC/UC, Command & Genera Staff, Branch Directors, Div Sups., Task Force/Strike Te Leaders and Unit Leaders	/Gru Foo		

	y: (Situation Unit Le	ader	·)	Date/T			
M572	STANKTNG				122B14		
	•			l	825		

ICS 230-CG (Rev.07/04)

DAILY MEETING SCHEDULE

DAILY MEETING SCHEDULE (ICS 230-CG)

Purpose. The Daily Meeting Schedule records information about the daily scheduled meeting activities.

Preparation. This form is prepared by the Situation Unit Leader and coordinated through the Unified Command for each operational period or as needed. Commonly-held meetings are already included in the form. Additional meetings, as needed, can be entered onto the form in the spaces provided. Time and location for each meeting must be entered. If any of these standard meetings are not scheduled, they should be crossed out on the form.

Distribution. After coordination with the Unified Command, the Situation Unit Leader will duplicate the schedule and post a copy at the Situation Status Board and distribute to the Command Staff, Section Chiefs, and appropriate Unit Leaders. All completed original forms MUST be given to the Documentation Unit.

Item #	Item Title	<u>Instructions</u>				
1.	Incident Name	Enter the name assigned to the incident.				
2.	Operational Period	Enter the time interval for which the form applies.				
3.	Meeting Schedule	For each scheduled meeting, enter the date/time, meeting name, purpose, attendees, and location. Note: Commonly-held meetings are included in the form. Additional meetings, as needed, can be entered onto the form in the spaces provided. Time and location for each meeting must be entered. If any of the standard meetings are not scheduled, they should be deleted from the form (normally the Situation Unit Leader).				
4.	Prepared By	Enter name and title of the person preparing the form, normally the Situation Unit Leader.				
	Date/Time	Enter date (month, day, year) and time prepared (24-hour clock).				

Boyd, Valerie A LCDR

From:

Brian.Kyle@noaa.gov on behalf of Brian Kyle - NOAA Federal [Brian.Kyle@noaa.gov]

Sent:

Saturday, March 01, 2014 9:40 PM

To:

NWS SR-HGX.Partners

Subject:

Weather issues we're looking at Sunday/Sunday night

Severe Weather

A cold front will cross southeast Texas on Sunday afternoon and early evening. The front will trigger scattered to numerous showers

and thunderstorms. Should the warm layer of air...or cap...currently in place erode...some of the storms could become severe. Damaging winds...isolated tornadoes and hail would then be possibilities.

The greater chance for severe weather will be north of a brenham to conroe to livingston line. Time period would be from roughly noon

across extreme north to mid to late evening beaches.

http://www.srh.noaa.gov/images/fxc/hgx/graphicast/image full2.jpg

Winter Weather

Temperatures will rapidly drop in the wake of the front. Some locations north of a Brenham-Livingston line could see readings fall to

near freezing during the evening hours as lingering light rain or drizzle

begins to depart. Should this occur...a brief 3 to 5 hour window of freezing rain or drizzle would be a possibility from roughly 8 pm sunday night to

1 am monday morning. Since we have seen warm temperatures the past couple days there is a good possibility very little will actually accumulate on roads due to the warm ground and brief window should precipitation actually fall during this time period. Always worth watching

bridges though, especially for lingering puddles from earlier rain during the day.

We will continue to monitor this situation...especially in the more favored location around the Lake Livingston area.

Regards,



Operational Meeting Update: 3/3/14 3pm

Supplement to the ICS 202 for the Operational Period March 2, 9am thru March 4, 9am. Section 4: Operational Period Command Emphasis

<u>Situational Update</u> – Calculations show contaminated water volume is \sim 20 million gallons.

Containment - Completed

- Refined numbers: 46,500lbs = 5,314 gallons
- Hot Zone cleanup started. Collecting water in Frac Tank.

Diversion: Clean Water

East side Plt B - Going to outfall 102: 1 pumps for SE B-15

- Going to outfall 403: 2 pumps at B-13 TB, 1 Pump at NW corner B-13

West side Plt B - Dams in place. High spots preventing flow to the west. Removed to improve flow.

403 Basin Decontamination - Pumping fresh water through the basin.

Samples in the basin at 3 ppm; and 003 outfall continues to be Non-Detect.

403 Contaminated Water Evacuation: start documenting this on the (ISC 209)

B-300 Dorr Pond – # 3 pond emptied waiting to start PO transfer line

- 1. Sludge Line Pumping started 3/3 at 16:30 at ~500 gpm [total 500 Mgallons]
- 2. **PO Hot water pipeline** Hot tap will be completed by 16:00. Estimated flow will be 6 7 Mgpm

ON-HOLD: Plant A Storage (6 MM gallons): 4 days out to complete

- 1. Pipeline to Pit A (~800,000 gpd) need fab pipe to run across sea water canal, other crossings
- 2. **Cumen Tanks** pulled roof and completed inspection. Tank is good.
- 3. Barges on-going and will coordinate all activities through coast guard.

B-47 Plant B Storage: 44 MM gallons. Routing Defined. Need to document procedures for commissioning and operation. Have Coast Guard resources on-site for hydro-and operation.

<u>Treatment</u> – On-Hold. Concentrate resources on primary objective.

- 1. **Siemens**: 600 gpm: North side of 403 Basin. Vessels are set on rig mats.
- 2. Baker: 2 x 600 gpm: Laydown yard. Preparing site on South side of 403 basin for rig mats

Cost Tracking - Eric Mach has joined our team. Send him all information on WO & Purchase orders

- Tracking time for Dow people working on this event.

<u>Cooling Towers</u> – Need to cycle other CTs to keep all systems good.

<u>Analytical</u> – Data is stabilizing with minimal changes.

Weather: Rain Forecast 60% tonight. Tuesday 70% chance with steady rain in the morning (1/2")

Valentoy Luon USCG M. K. Hol Dow IC

Unified Command Approval Signatures:

Operational Meeting Update: 3/3/14 9:00

Supplement to the ICS 202 for the Operational Period March 2, 9am thru March 4, 9am. Section 4: Operational Period Command Emphasis

Situational Update – Calculations show contaminated water volume is ~ 20 million gallons.

Containment – Completed

- Refined numbers: 46,500lbs = 5,314 gallons
- Hot Zone cleanup started. Collecting water in Frac Tank.

Diversion:

Clean Water – Going to outfall 102: 2 pumps at B-13, 1 Pump at NW corner B-13, – Going to outfall 403: 1 pumps for SE B-15

<u>403 Basin Decontamination</u> – Pumped out based to remove contaminated water (Conc. in btm of empty basin was 50 ppm). Refilling with clean water from the east (Conc. is at 10 - 20 ppm). Will put back in service at 1 - 2 Mgpm. Once this reaches the 003 outfall, conc will be below 0.5 ppm

403 Contaminated Water Evacuation:

B-300 Dorr Pond - # 3 pond about 50% emptied. Running 3 pumps. #4 pond dewatered.

- 1. **Sludge Line** Completed tie points this morning. Start pumping this afternoon
- 2. **PO Hot water pipeline** Hoses being finalized from B-13 to Dorr pond. Hot tap line today. Estimated flow will be 6 7 Mgpm

Plant A Storage (6 MM gallons): 4 days out to complete

- 1. Pipeline to Plt A (~800,000 gpd) need fab pipe to run across sea water canal, other crossings
- 2. **Cumen Tanks** pulled roof and completed inspection. Tank is good.
- 3. **Barges** on-going and will coordinate all activities through coast guard.

B-47 CAMU Storage: 44 MM gallons

<u>Treatment</u> – Carbon Beds: 24 hour soak time required to maximize effectiveness. Start soaking as soon as vessels are set.

- 1. **Siemens**: 600 gpm: North side of 403 Basin. Vessels are set on rig mats.
- 2. On-Hold Baker: 2 x 600 gpm: Laydown yard. Preparing site on South side of 403 basin for rig mats
- 3. **Long term**: once 403 canal is back in service, carbon beds will be moved to Dorr ponds to treat contained contaminated material.

Cost Tracking - Eric Mach has joined our team. Send him all information on WO & Purchase orders

- Tracking time for Dow people working on this event.

<u>Cooling Towers</u> – Need to cycle other CTs to keep all systems good.

Analytical – getting round of samples this morning.

<u>Weather</u>: Rain Forecast 60 – 90% between 20:00 – 24:00. Continuing work to segregate contaminated 403 canal.

44 million gallon storage capacity south of B-403 outfall

- 12 inch Diesel pumps (3 will be installed moved from Dorr pond dewatering)
- 12 inch Flanged flex hose (2 lines will be installed)



Walzer, Thomas

From: Schmidt, Carla (CJ) <CJSchmidt@dow.com>

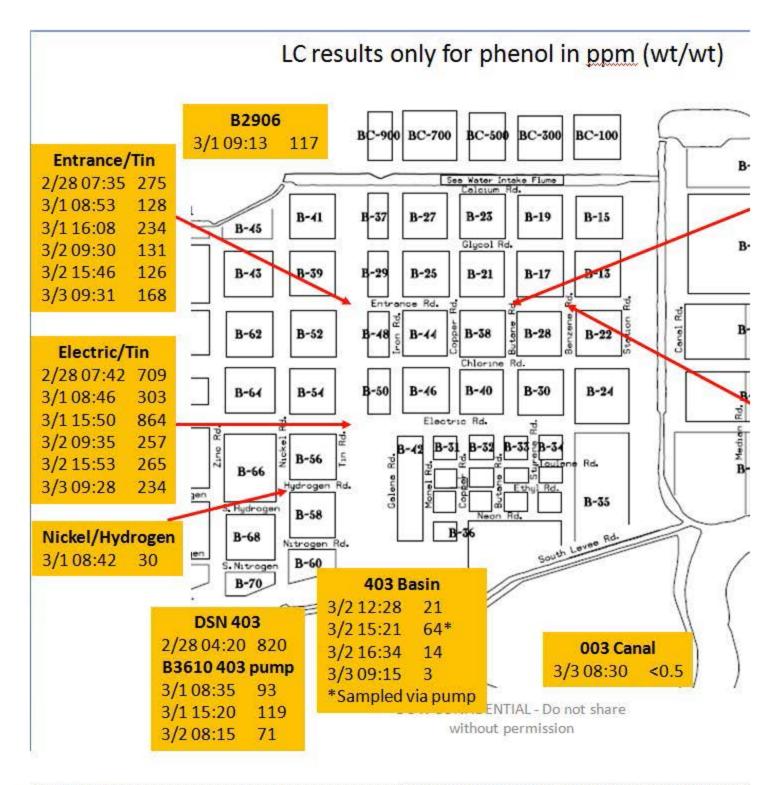
Sent: Monday, March 03, 2014 1:07 PM

To: Neff, Bart (BW); Horsch, Steven (SE); Modtland, Curt (CD); Kuettel, Mark (MB); Reed,

Chris (CJ); Grisham, Steve (JS)

Subject: LC results for ditch samples 3/3 AM sampling

Ditch samples seem fairly consistent in concentration now. The sample labeled as 003 canal was <0.5ppm phenol. - Carla



TX LIMS #	Sample id.	Received	Received	TOC	NMR
	Component	Date	Time	carbon	phenol
	Units			ppm	ppm
2793-030	3/03/14 9:15 403 (B3610)	3/3/2014	10:00 AM	7	
2793-031	3/03/14 9:28 Tin & Electric			l,	
2793-032	3/03/14 9;31 Tin & Entrance				
2793-033	3/03/14 9:36 Butane & Entrance				
2793-034	3/03/14 8:30 003 Canal	3/3/2014	11:00 AM		

From: Schmidt, Carla (CJ)

Sent: Sunday, March 02, 2014 7:02 PM

To: Neff, Bart (BW); Horsch, Steven (SE); Modtland, Curt (CD); Kuettel, Mark (MB); Reed, Chris (CJ); Grisham,

Steve (JS)

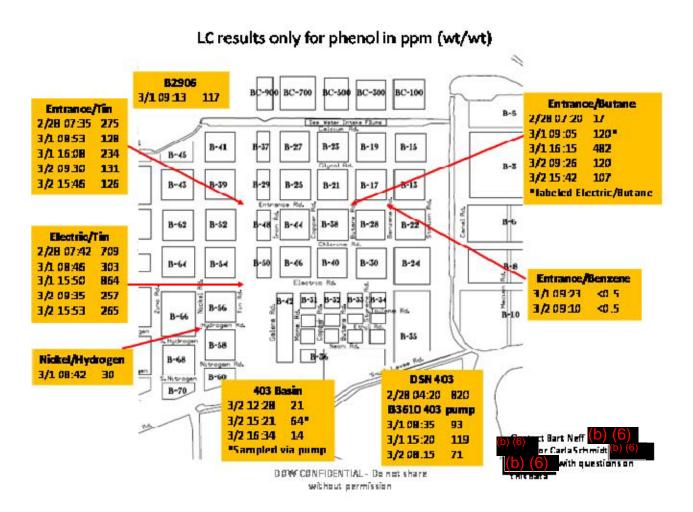
Subject: LC results for ditch samples 3/2 PM sampling

Here are the latest results from this evening's samples. Ditch samples are consistent with this morning's results. NMR and TOC are in agreement with this data as well.

I need feedback on whether we expect more samples tonight. If not, I will send our folks home and if there is an emergency that requires more LC data I can be reached at my cell (b) (6) or home (b) (6) I am the on-call LC person for tonight.

We now have 3 sets of data comparing NMR, LC, and TOC on <u>fresh</u> samples that show that these methods all agree. There appears to be a decrease in measured phenol when the samples are analyzed several hours later, however. Based on the agreement of the three methods, we have decided to suspend analyses of the samples by NMR unless absolutely needed. We need to free up these resources to support the 2 Deer Park waste water issues as well as any remaining needs for the Fpt Specialties side.

Carla



TX LIMS#	Sample id.	Received	Received	TOC	NMR	LC	Comments

	Component	Date	Time	carbon	phenol	phenol	
	Units			ppm	ppm	ppm	
2793-	2/28/14 AM	28-Feb	1:30 PM	506	897	820	LC samples in yellow
001	4:20 a DSN403						were analyzed a day
							after collection and
							the samples were not
							refrigerated
2793-	2/28/14 7:20			17	17	17	LC samples are not
002	Butane @						diluted and are within
	Entrance						calibration range
2793-	2/28/14 7:35 a			232	284	275	
003	Entrance @ Tin						
2793-	2/28/14 7:42 a			607	765	709	
004	Electric @ Tin						
2793-	2/28/14 7:55 a			586	779	723	
005	DSN403 Top of						
2700	Canal	2/4/2044	0.00.444			0.5	ALA AD II. II. C
2793-	3/01/14 9:23 Benzene and	3/1/2014	9:30 AM	7	N.D.	<0.5	NMR limit of
006	Entrance						detection estimated
	Littiance						at 10ppm depending on sample matrix
2793-	3/01/14 9:13			102	117	117	on sample matrix
2793- 007	B2906			102	117	11/	
2793-	3/01/14 9:05 Buta	na & Flactric	(haliayad	108	124	120	
008	to be Entrance rat		-	100	124	120	
000	Grisham)	iner than Elec	oti ie pei				
2793-	3/01/14 8:42			31	25	30	
009	Nickel &			31	23	30	
003	Hydrogen						
2793-	3/01/14 8:46			247	324	303	
010	Electric & Tin						
2793-	3/01/14 8:35			73	93	93	
011	B3610 403						
	pump						
2793-	3/01/14 8:53			114	133	128	
012	Entrance & Tin						
2793-	3/01/14 15:20	3/1/2014	4:30 PM	54	85	119	TOC & NMR
013	B3610 (403)						measured following
							morning
2793-	3/01/14			397	555	864	TOC & NMR
014	15:50 Electric &						measured following
	Tin						morning
2793-	3/01/14 16:08			106	112	234	TOC & NMR
015	Entrance and						measured following
	Tin						morning
2793-	3/01/14 16:15			221	263	482	TOC & NMR
016	Butane &						measured following
2=25	Entrance	0 10 105 : :	40.00	2.1			morning
2793-	3/2/2014 8:15	3/2/2014	10:00	61	68	71	
017	403 Pump		AM			2 -	ALBAD II. II. C
2793-	3/02/14 9:10			4.1	N.D.	<0.5	NMR limit of

018	Entrance @ Benzene						detection estimated at 10ppm depending on sample matrix
2793-	3/02/14 9:26			100	144	120	·
019	Butane @ Entrance						
2793-	3/02/14 9:30			109	169	131	
020	Entrance @ Tin						
2793-	3/02/14 9:35			215	306	257	
021	Electric @ Tin						
2793-	3/02/14 12:00	3/2/2014	12:10	N/A	N/A	N/A	pH only 10
022	B300 Pond #3		PM				
2793-	3/02/14 12:00			N/A	N/A	N/A	pH only 7
023	B300 Pond #4						
2793-	3/02/14 12:28	3/2/2014	2:25 PM	21	19	21	
024	403 Center						
2793-	3/02/14 15:21	3/2/2014	3:40 PM	55	65	64	
025	403 B3610						
	Sample Pump						
2793-	3/02/14 15:42			87	110	107	
026	Entrance &						
	Butane						
2793-	3/02/14 15:46			107	132	126	
027	Entrance & Tin						
2793-	3/02/14 15:53			218	271	265	
028	Electric & Tin						
2793-	3/02/14 16:34			16	14	14	
029	403 Grab						
	sample						

Walzer, Thomas

From: Schmidt, Carla (CJ) <CJSchmidt@dow.com>

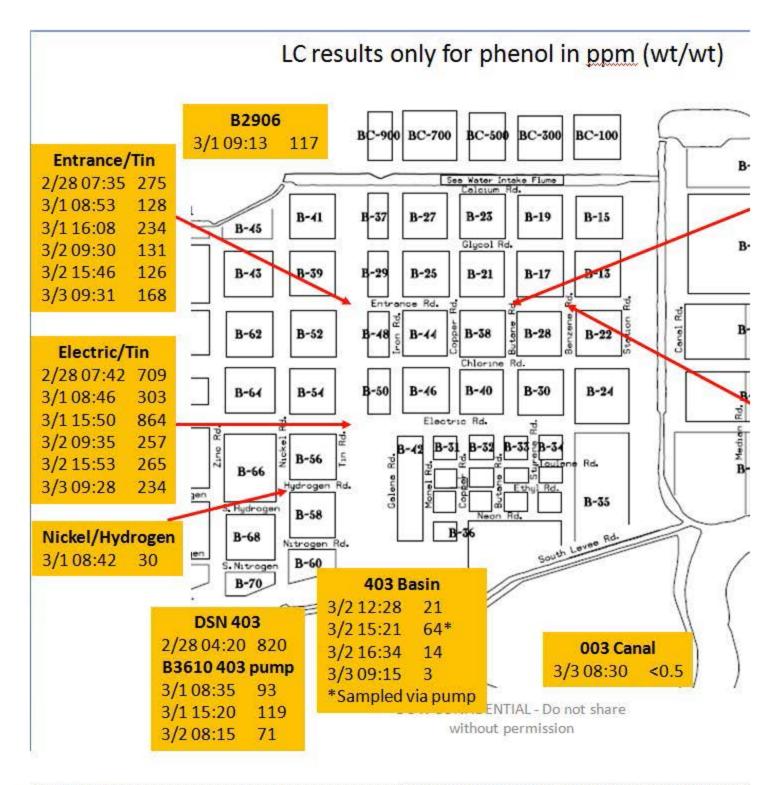
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Ditch samples seem fairly consistent in concentration now. The sample labeled as 003 canal was <0.5ppm phenol. - Carla



TX LIMS #	Sample id.	Received	Received	TOC	NMR
	Component	Date	Time	carbon	phenol
	Units			ppm	ppm
2793-030	3/03/14 9:15 403 (B3610)	3/3/2014	10:00 AM	7	
2793-031	3/03/14 9:28 Tin & Electric			l,	
2793-032	3/03/14 9;31 Tin & Entrance				
2793-033	3/03/14 9:36 Butane & Entrance				
2793-034	3/03/14 8:30 003 Canal	3/3/2014	11:00 AM		

From: Schmidt, Carla (CJ)

Sent: Sunday, March 02, 2014 7:02 PM

To: Neff, Bart (BW); Horsch, Steven (SE); Modtland, Curt (CD); Kuettel, Mark (MB); Reed, Chris (CJ); Grisham,

Steve (JS)

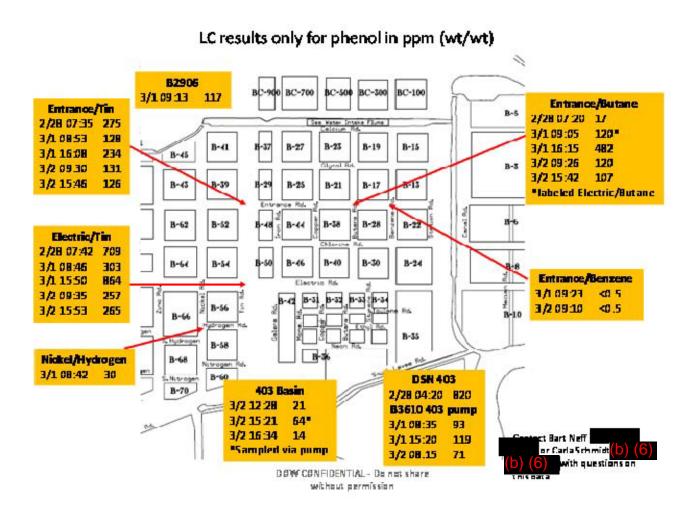
Subject: LC results for ditch samples 3/2 PM sampling

Here are the latest results from this evening's samples. Ditch samples are consistent with this morning's results. NMR and TOC are in agreement with this data as well.

I need feedback on whether we expect more samples tonight. If not, I will send our folks home and if there is an emergency that requires more LC data I can be reached at my cel (b) (6) or home or home I am the on-call LC person for tonight.

We now have 3 sets of data comparing NMR, LC, and TOC on <u>fresh</u> samples that show that these methods all agree. There appears to be a decrease in measured phenol when the samples are analyzed several hours later, however. Based on the agreement of the three methods, we have decided to suspend analyses of the samples by NMR unless absolutely needed. We need to free up these resources to support the 2 Deer Park waste water issues as well as any remaining needs for the Fpt Specialties side.

Carla



TX LIMS#	Sample id.	Received	Received	TOC	NMR	LC	Comments

	Component	Date	Time	carbon	phenol	phenol	
	Units			ppm	ppm	ppm	
2793-	2/28/14 AM	28-Feb	1:30 PM	506	897	820	LC samples in yellow
001	4:20 a DSN403						were analyzed a day
							after collection and
							the samples were not
							refrigerated
2793-	2/28/14 7:20			17	17	17	LC samples are not
002	Butane @						diluted and are within
	Entrance						calibration range
2793-	2/28/14 7:35 a			232	284	275	
003	Entrance @ Tin						
2793-	2/28/14 7:42 a			607	765	709	
004	Electric @ Tin						
2793-	2/28/14 7:55 a			586	779	723	
005	DSN403 Top of						
2700	Canal	2/4/2044	0.00.444			0.5	ALA AD II. II. C
2793-	3/01/14 9:23 Benzene and	3/1/2014	9:30 AM	7	N.D.	<0.5	NMR limit of
006	Entrance						detection estimated
	Littiance						at 10ppm depending on sample matrix
2793-	3/01/14 9:13			102	117	117	on sample matrix
2793- 007	B2906			102	117	11/	
2793-	3/01/14 9:05 Buta	na & Flactric	(haliayad	108	124	120	
008	to be Entrance rat		-	100	124	120	
000	Grisham)	iner than Elec	oti ie pei				
2793-	3/01/14 8:42			31	25	30	
009	Nickel &			31	23	30	
003	Hydrogen						
2793-	3/01/14 8:46			247	324	303	
010	Electric & Tin						
2793-	3/01/14 8:35			73	93	93	
011	B3610 403						
	pump						
2793-	3/01/14 8:53			114	133	128	
012	Entrance & Tin						
2793-	3/01/14 15:20	3/1/2014	4:30 PM	54	85	119	TOC & NMR
013	B3610 (403)						measured following
							morning
2793-	3/01/14			397	555	864	TOC & NMR
014	15:50 Electric &						measured following
	Tin						morning
2793-	3/01/14 16:08			106	112	234	TOC & NMR
015	Entrance and						measured following
	Tin						morning
2793-	3/01/14 16:15			221	263	482	TOC & NMR
016	Butane &						measured following
2=25	Entrance	0 10 105 : :	40.00	2.1			morning
2793-	3/2/2014 8:15	3/2/2014	10:00	61	68	71	
017	403 Pump		AM			2 -	ALBAD II. II. C
2793-	3/02/14 9:10			4.1	N.D.	<0.5	NMR limit of

018	Entrance @ Benzene						detection estimated at 10ppm depending on sample matrix
2793-	3/02/14 9:26			100	144	120	·
019	Butane @ Entrance						
2793-	3/02/14 9:30			109	169	131	
020	Entrance @ Tin						
2793-	3/02/14 9:35			215	306	257	
021	Electric @ Tin						
2793-	3/02/14 12:00	3/2/2014	12:10	N/A	N/A	N/A	pH only 10
022	B300 Pond #3		PM				
2793-	3/02/14 12:00			N/A	N/A	N/A	pH only 7
023	B300 Pond #4						
2793-	3/02/14 12:28	3/2/2014	2:25 PM	21	19	21	
024	403 Center						
2793-	3/02/14 15:21	3/2/2014	3:40 PM	55	65	64	
025	403 B3610						
	Sample Pump						
2793-	3/02/14 15:42			87	110	107	
026	Entrance &						
	Butane						
2793-	3/02/14 15:46			107	132	126	
027	Entrance & Tin						
2793-	3/02/14 15:53			218	271	265	
028	Electric & Tin						
2793-	3/02/14 16:34			16	14	14	
029	403 Grab						
	sample						













3/5/14 1500 Update

Clean Water Pumping:

B-13/B-15: Add additional pump for B15 flow- today

West End Plt B: Added 2 diesels

Evacuating contaminated water from 403 Canal:

- Dorr pond
- B-47 B-Pond
- Rate of Level Drop

Run 3rd Line to B-Pond

- Leena K. RTO at 8PM
- Evaluate moving 3rd pump to upstream location
- Add flow meters to pumps Kristin

Canal depth survey: Dam- North to Electric Rd.

- Data for pump suction
- Use fish team
- Assigned to Dow Team

B-17 Hot Zone: Jay Crochet

- 1. Empty & remediate
- 2. Set up pumps [coming from hot tap pumps need 2 pumps] to add clean water flush

Super Flush Strategy:

•

B-23 Sea Water by-pass: 1 pump/Thursday after 5PM

- 1. Move hot tap pump to B-23 (after Dorr pond full)
- 2. Lay hoses (Length suction / 150 ft discharge)

Dam Building (new)

3/5/14 -> None

Sampling Plan - Grisham/Schmidt

- Review Data
- Laterals

3/6/14 1500 Update: B-1700 Phenol Spill

Clean Water Pumping:

<u>B-13/B-15</u>: 3 pumps diverting to 102 outfall. 2 pumps pushing water south to 403 thru east ditch. PGA added 1300 gpm last night, which is being managed.

<u>PO</u>: planned SHDN on Sunday night Midnight – 6 am. Will increase water to ditch by 6Mgpm, but looking at options to put water to B-308 reservoir via lamella line. West End Plt B: holding with no diesels running (2 on standby)

Evacuating contaminated water from 403 Canal:

- Dorr pond on hold. 1 million gallons capacity left (3 hrs pumping).
- B-47 B-Pond: 2 pumps each at 3Mgpm. Pond is going up at 2 3 inches per hour. 19 total feet available with 7 already in pond.
- Rate of Level Drop: 2.6 inches per hr drop rate. Currently at 5 ft

Pump Optimization & 3rd Line to B-Pond

- Moved 2 pumps 150 yards to the west to the deepest spot in canal
- Challenged with NPSH. Evaluating option to improve NPSHa
- Monitoring flow meters at steel pipe. Taking flow readings every couple hours.

Canal depth survey: Dam- North to Electric Rd.

• Data for pump suction – identified deepest section is at the bend.

B-17 Hot Zone: Jay Crochet

1. Empty & remediate. Emptied water to frac tank. Started remediation of dirt in canal. Will complete testing of dirt this evening. Goal to complete all remediation tonight.

Super Flush Strategy:

Finalizing plans for 3 flushes

B-23 Sea Water by-pass: 1 pump was set Wednesday after 5PM. Ready when needed.

Dam Building (new)

None

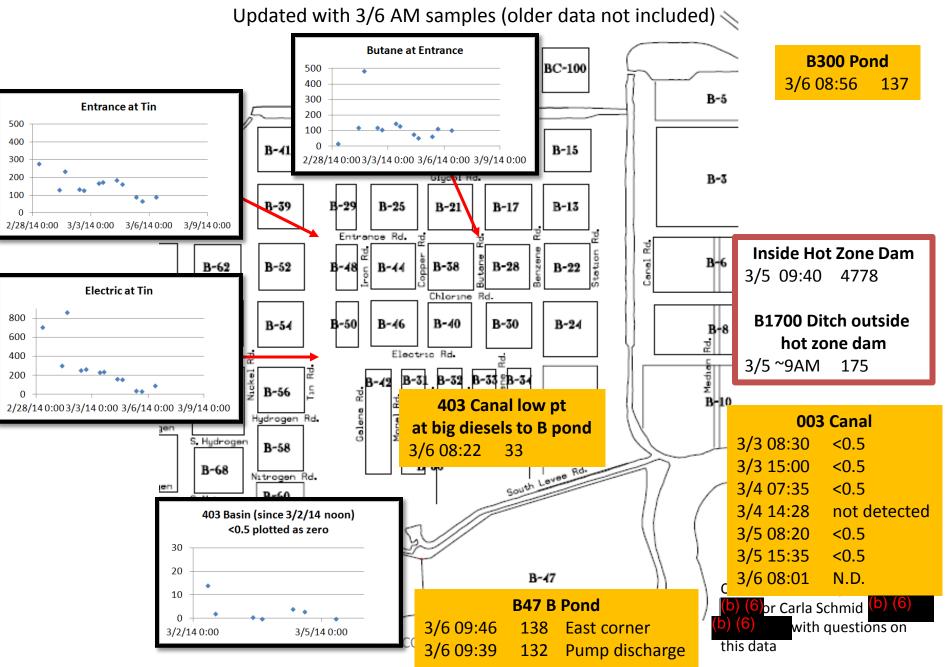
Sampling Plan – Grisham/Schmidt:

- Review Data ND in 403 and 003.
- Lateral data collected

Integration: no significant changes. PO shutting down on Sunday for a repair.

Cooling Towers: 3 towers blowing down and managing the site with total of 200 gpm.

LC results only for phenol in ppm (wt/wt)





3/7/14 1500 Update: B-1700 Phenol Spill

<u>Clean Water Pumping</u>: Managing all clean water – 5 diesels. No major issues.

<u>PO</u>: planned SHDN on Sunday night Midnight – 6 am. Will increase water to ditch by 6Mgpm, but looking at options to put water to B-308 reservoir via lamella line.

Evacuating contaminated water from 403 Canal:

- Canal reaching low level, mid morning, 12" diesels starting to vortex this morning.
- Completed 1st Flush water from the Electric Rd lateral
- Restarted flow to Dorr ponds (3 pumps). Can pump until ~ 6 to 8PM
- B-47 B-Pond: (3 pumps) hour.
- Rate of Level Drop: 8 inches drop since 1200. Currently at 2.6 ft
- Sand Bar (150 ft North of 12" diesels) created channel to drain canal

B-17 Hot Zone: Jay Crochet

1. Remediation completed.

Super Flush Strategy:

- Flush completed from Electric Road
- 2nd Flush will be super flush from B-17 clean water

•

<u>B-23 Sea Water by-pass</u>: 1 pump was set Wednesday after 5PM. Ready when needed.

The Dam Team

- Added 3 Dams at Entrance and Butane (east and west side), Entrance and Copper. Fill with fresh water from the B-23 side
- Removed the Electric dam
- Next remove the B-17 dams

<u>Sampling Plan – Grisham/Schmidt</u>:

Review Data – ND in 403 and 003.

Integration: no significant changes. PO shutting down on Sunday for a repair.

Cooling Towers: CT blowing down and managing the site with total of 200 gpm.

3/8/14 1500 Update: B-1700 Phenol Spill

<u>Clean Water Pumping</u>: Managing all clean water – 5 diesels. Water is high. Adding 6th diesel. Can reduce seawater use by PGA. Weste end ran 2 diesels at B-68.

PO: planned SHDN on Sunday night Midnight – 6 am.

Evacuating contaminated water from 403 Canal:

- Completed 3 flushes.
- Water was clean in ditch (Morning Data)
- Released water from the west ditch to fill canal
- Did some sampling and found 21 ppm between the 403 diesel and 403 dam

B-17 Hot Zone: Jay Crochet

- 1. Remediation completed in canal
- 2. Working under pipe rack. Installed diversion berm to a sump. Cover with plastic.
- 3. Transferring a Frac tank.

<u>B-23 Sea Water by-pass</u>: 1 pump was set Wednesday after 5PM. Ready when needed.

The Dam Team

- Added 2 Dams at B-21, filling with fresh water
- West side (at power 9) Partial removal and rebuilt.
- Next objective remove B-403 muck and dam

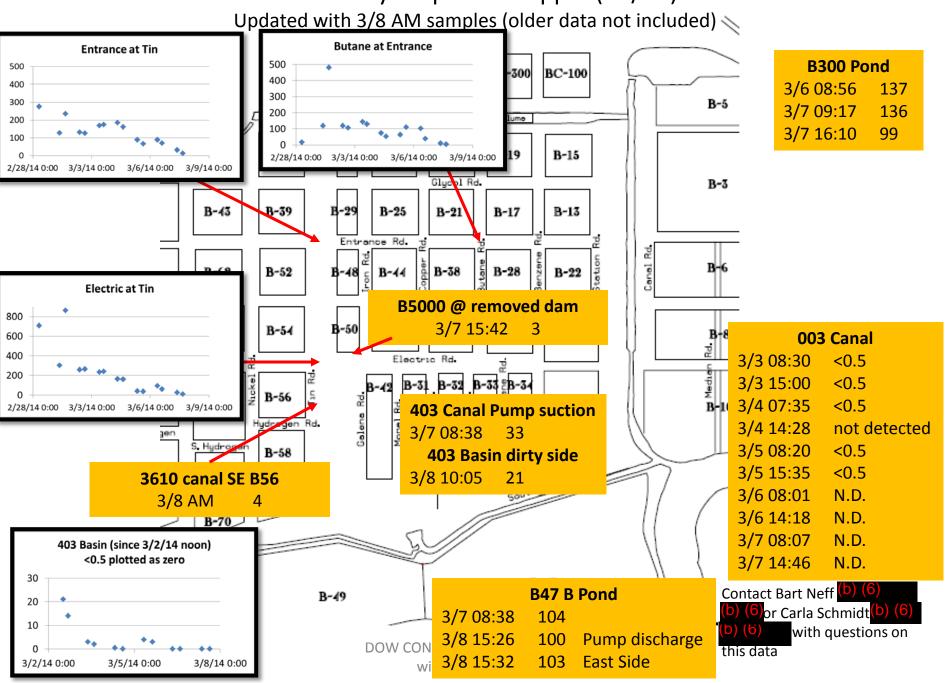
Sampling Plan – Grisham/Schmidt:

Review Data – ND in 403 and 003.

<u>Integration</u>: no significant changes. PO shutting down on Sunday for a repair.

Cooling Towers: CT blowing down and managing the site with total of 200 gpm.

LC results only for phenol in ppm (wt/wt)



3/9/14 11:00 Update: B-1700 Phenol Spill

NOTE: <u>This is the final Operational Update</u> as all site affected systems have returned to normal operations.

Clean Water Pumping:

- All clean water is off.
- All blocks are pumping in normal configuration.

403 Canal:

- The isolation Dam was removed late yesterday, water was confirmed clean, and lift pumps were started.
- Lift pumps are in normal level control operation.

B-17 Hot Zone:

- 1. Remediation completed in canal.
- Affected area beneath pipe rack to site ditch is secured (diversion berm to a sump, covered with plastic). Dirt removal began yesterday & will be managed by B-17.
- 3. Frac tank transfer of the dilute phenol water is complete.

B-23 Sea Water by-pass:

• The pump will remain in place at this location until the slide valve is repaired. Available as needed per normal water make-up demand.

The Dam Team

 All Dams have been removed. Water flows through canals have all returned to normal operation.

Sampling Plan – Grisham/Schmidt:

No special sampling needed- all plants are managing as per normal operations.

Integration:

• Site is back to normal operations. Contact Raw Material Center for any issues.

Cooling Towers:

 All restrictions related to CT blow-downs were removed last night. Recommunicated to all plants this morning to resume normal operations. ATTACHMENT H

SITE LOGBOOK

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ALL-WEATHER JOURNAL

No. 391

Dow Chemical-B1700Phenol

10: 1/WESTON-042-14-007

10: 20406.012.001.0861.0/

Name DOW Chemical B1700 Phenol

Address 2301 N. Brazosport Bluch
Brazoria County, Freeport, TX 7754/

Phone

Project TDD 1/WESTON-042-14-007

NRC: 1075337

20406.012.001.0861.01

OSC: Adam Adams

CONTENTS				
PAGE	REFERENCE	DATE		
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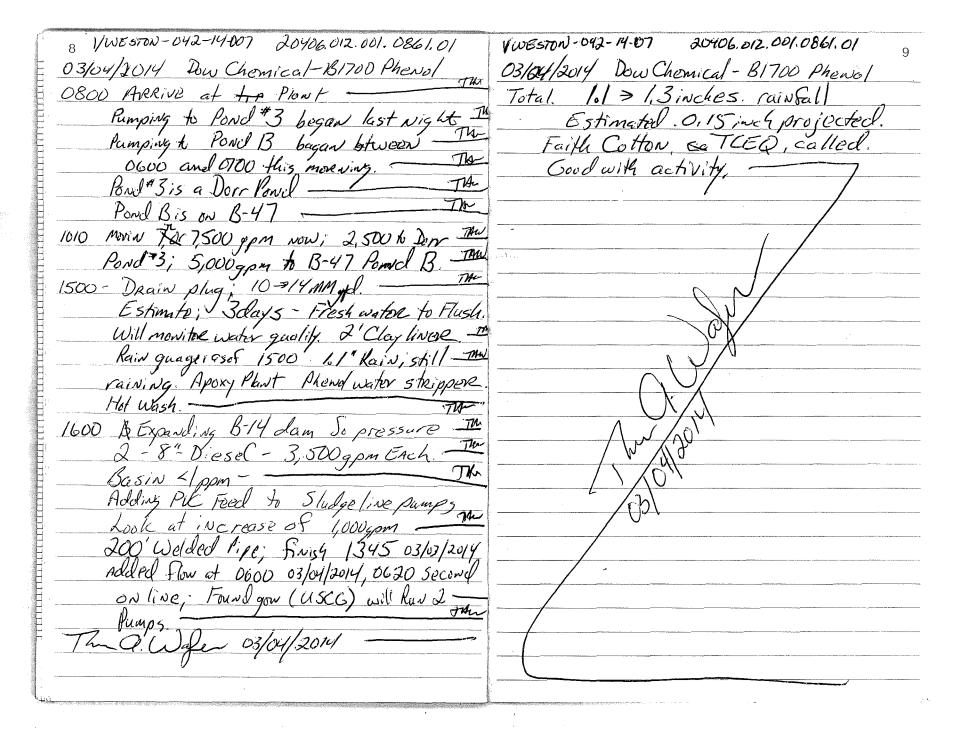
Clear Vinyl Protective Slipcovers (Item No. 30) are available for this style of notebook. Helps protect your notebook from wear & tear. Contact your dealer or the J. L. Darling Corporation.

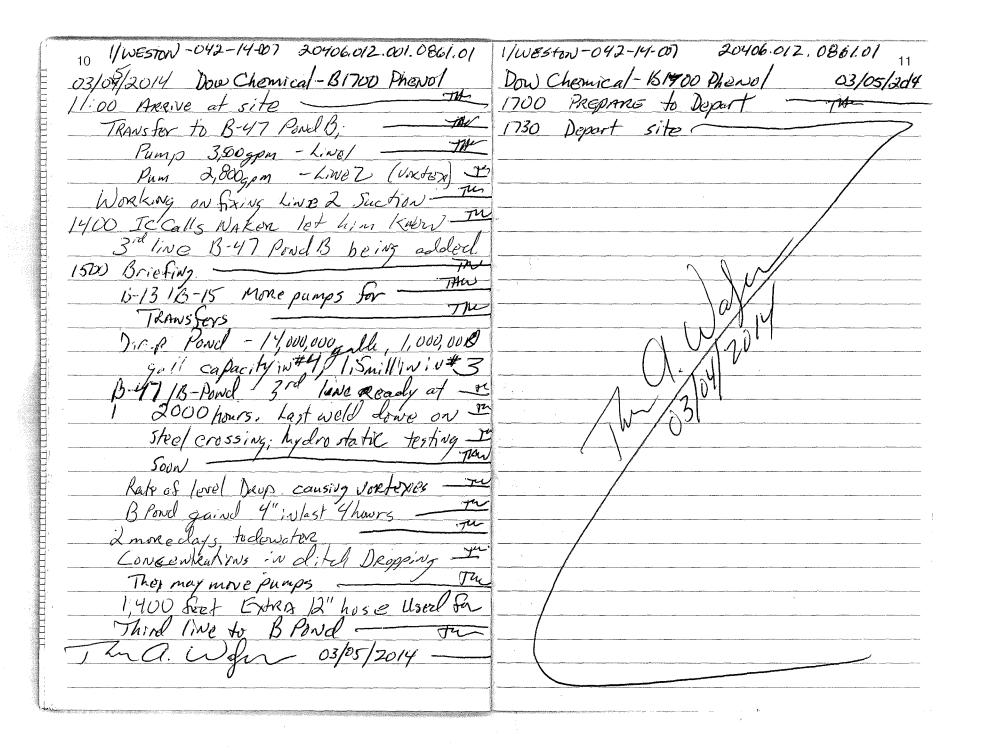
START-3: Thomas Walzer

2 DowChemical VWESTON 042-14.	Daw Chemical VWESTON-042-14-007 3
03/01/2014 B1700 Pheno/ 20406,012,001.08G/s	BT 700 Phonol 20106012.001.086101 03/01/2014
E 0530 ARRIVE WARRANSO TA	South side B-1700 unit - The
= 0640 Depart Warehouse - Thu	403 out Sall
0640 Depart Warehouse The Situation as 0800 The	South side B-1700 unit - The 403 out Sall - The Line isolated (6000 bounds) - The
- 0000 JOSOO FR. day - Glord	403 out fall Shut down - all condined
Noticed pienol odor	in 403 canal Chlorine - The
6,000 gallons (possibly 6,700 zallons)	Shutdown Proply Clycal Plant, (seaweter)
31,000,000 gollows IN ditch (1000,000)	Bott cut blowdown from Cooling Tombes
800ppm in water - The	Ditet - Steve Grisham; Foolation dans
* 3 phase plan; TREAT for release The	360; Trrying Clean out pump busin The
1. Carbon + Frank or I gov bed T -The	G Foot all of labour of all the
2. Mariono transfer to barge on The	used.
Brazos River	Clean water is being pumpel -
= 3. Pipeline out to treatment -	Clean water is being pupel - The 403 - 3.9 feet 4.2 feet this moreony the
Temporary storge being set up	1,000 seet of hose - Theire 10 dd associance -
FREE poard. 3-4 ft Welikhes - The	DI- 11 ying to pump und powds 3+9 to
= DO Not Checked (DO=Dissolul Oxygon)	allow thansfer to imputed water; working
TCEO was here yesterday will not be	to get alean water out liketi Hope to be in
part of ICS. Two	Dum Dives dive water to some a the hunch
Priority is not go to rivere from Dow. The	lay on 2. Cunow tank potential Storage, - The
Raw tolcasted to Linday Night	lay on 2.
Cleanup Crew 85 here lost night - The	Cunow tank potential Storage,
proparing to pump waters - proping the	Hot cone, full phenol 176
Strage pond the 10 USCG personnel	Recalmental 10,000,000 gallows.
10 USCG PERSONNO/	STEBR 3 Ric portal estimated < 1000/ls Evission
Thomas C. Wafe 03/01/2014	The alleger 03/01/2014

4 1/WESTON-042-14-007 20406,012,001.0861.01	1/WESTON-042-14-007 20406.012.001.0861.01 5
03/01/2014 Dow Chemical - B1700 Phenol 28 Repelies leaked -	Dow Chemical - B1700 Phenol 03/02/2d4
28 "Pipeline leaked	THE
South Levee & Copper Rd - TAW	
= 1046 DOMR MONds: A4-hours to remove	15-300 * Spowd 509; # 9 powd empty
Clean water Capacity to hold	CARbon bods being installed; need to The
(1),000,1711). May had vot @ HRMON USQ	seak to get in service
Magnistan 1990's	1000 up dating RM
Phonolog - Mid.	1310 Const quard ARRIVES For 1400 brieforg
Magnistan 1990's - The Phonolog - Mid. The	Continue to be No offsite impacts as
· Estimated 10,000,000 gallows of the	reported by Dow; Plant operations
· Estimated 10,000,000 gallows of the waterimpacted	cut back to keep workers out of
· Estimated 60,000 pound Phenol Redease	impacted meas and reduce water
from 2" transfer line - The	production oxfosport
· Cooling Towers, recirculating water The	production ochstwith 1830+620 Reported by Dow (Fran Falcon) The
rather than discharging to cava	carbon beds put on hold. Dow tooking after
and adding to impacted water	Stripping to recovere phenol, Mork The
· Romoving water from Done	Kuckel (Dow IC) ident hed they are
poinds so they can transer impacted	sorring houses to me there toso
water to sorr powds	to B Powd
18 00 Depart Site	151700 Depart Site
water to Sorr powds The 18 00 Depart Site The 1930 Depart Worehouse The	
Than a. Wigh 03/01/2014	1 (Vaj a) y
	100/201
	03/02/2014

6 1/WESTON-048-042-14-007 20406.012.00/.0061.01	1/WESTON-042-14-007 20406.012.001,0861.01 7
03/03/2014 Dow Chemical-B1700 Phenol	Dow Chemical-B1700 Phenol 03/03/2014
0815 TALK to OSC Adams - TW	02 MARCH 2014 EVENTS
0830 Arrive ECC.	B47 - B Pond (Formerly Reformatate CAMU)
0853 Briefing being set up. The	30,000 gallon private - The
0900 Briefing Kestart	1500 Meeting,
Site still under contreol; Not In	Dave LEZACK [PKINPIN OPS) - The
much rain; Survey of depths of The	979-848-733/ - The
Canols; 20 million gallons The	John DYCHA THE
Slurry Line to soud of will get tom	281-633-6455
pond 3 latter today.	1620 Reported By Dow (FRON Falcon) carbon
Will use B4700 CAMU Unit _ The	beds on hold Dow looking at stripping
403 Clean; NON detect at out fall	to recover phenol, Mark Kuettel (Dow FC)
Wil install 2-12" lines to CAMU TM	identified they are obtaining hises
Storage; Expect to get Flowing 2000kgs	to add third have to B point to incease
towight; lived pand	Flow rato
Expect to get water dropped beginning the	1700 Depart Site; Noticeal oslospory Early
to morrow morning	on wrong date when closing 03/03/2014
Lt Boyde; Immediate Release The	
Welded Pipe Across water being Evaluated	
Clay I were in B4700 CAMY Storage	A LION I
PARKS + Wildlife; concerned about Wiston	1 (1.01)
Fav (1 2 2 20°
1320 LA Soyel ARRIVES, Transfer to low 3	0300
has not begun, near Attings In hydrostatic	
testing; pumpions to Pond 4 bayan at 1630	
Thomad Wagen	





12 YWESTON-042-14-007 20406.012.001.0861.01	VWESTOW-042-14-007 20406.012.001.0861.01
03/06/2014 Dow Chemical-B1700 Phonol	03/07/2014 Dow Chemical-B1700 Phenol 1130 ARRIVE at 5/te The Began flushing around 1100—Thu 1500 Meeting.
- 1/20 Asin of sails	1130 ARRIVE at 51to This
Dorr ponds not being pumped to, RESERVE THE	Bregon Flushing around 1100
B-47 POND - 2 DUMPS. South. 3525 grom (0920)	1500 Martines TAN
TAN North 3/3(20m (0920)	5 dieses running teansoning clean water
B-47 Pond - 2 pumps. Siruly. 3525 grpm (0920) Thu Noveth 3130 pm (0920) Pump Pond Rates "B" Pond 03/05/2014 2053 2800 3800 The siruly south	Freet Flushing arm Kanon as about Norm
03/05/2014 2053 2800 3800	0700 USCG present to commission 3rd line
$\frac{2800}{2}$	Jue to low lovels Hird diesed Santlain
03/45/2014 0920 3130 3525	
12112 24/3 Fhillian Reality - 71	2" Flush Frein B-17 to push all the
1400 3100 3430	Blacks Plushing as Avalytical IDs Histor
1400 3100 3430 - m	Blocks Flushing as Avalytical IDS Higher Concentrations
Coast Guard will be on site Fore Startup at Third Live to Powel B	1728 Flushing of side channels reported
	Execution of impacted Soils
1543 Notify OSC Adams DOW IC Changing	CONTINUE. Estimate residue in
1543 Notify OSC Adams Dow IC Changing To Brad Johnson, The	congly can be Shushed to out ful
05.1549 Maximum in cavals 100ppm.	and at bolo all of Could
403 basin and 003 outsall now do high	discharge permit limit
IC TRays Ser on Saturday -	1745 Depart site
1657 Nother excavation bagon of -	
impacted soils from release point -	a Date
Possible of thisking to begin tomorrow.	12019
Possible It Thisking to begin tomorrow. 1730 Depart Sites osloc/2014	discharge permit limit. 1745 Depart site Washington 1901
0 /1 /gh 05/06/00.1	
- Imaliano	END OF LOGBOOK
Vá.	



U.S. Department of Homeland Security **United States Coast Guard**



Marine Safety Unit Texas City 3101 FM 2004 Texas City, TX 77591

CDR RICARDO ALONSO

Office: 409-978-2701 Commanding Officer

Cell: 409-682-1259

e-mail: Ricardo, M. Alonso @uscg.mil



U.S. Department of Homeland Security **United States Coast Guard**



Marine Safety Unit Texas City 3101 FM 2004 Rd Texas City, TX 77591

MSTC KEITH NAKER Incident Management Division

Phone: 409-978-2766 Cell: 409-682-0241 keith.m.naker@uscg.mil

FAITH COTTON

Emergency Response Coordinator SWQM/ER

Region 12 ■ Houston



Texas Commission on Environmental Quality 5425 Polk Street, Suite H, Houston, TX 77023 Direct 713/767-3689
Office 713/767-3650 Fax 713/767-3561 faith.cotton@tceq.texas.gov

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"Rite in the Rain



Mobile: 281-750-9952 979-238-5685 Fax:

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Stratton Ridge Site Leader

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jbjohnson@dow.com





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Environmental Leveraged Delivery Leader

The Dow Chemical Company 2301 N. Brazosport Blvd., B-101 Freeport, TX 77541 USA'

fqfalcon@dow.com





979 238 2853 979 236 1620 Mobile: 979 238 0117

JIM LIPSCOMB

Emergency Services and Security Leader Texas Operations

The Dow Chemical Company

2301 Brazosport Blvd Building B1210 Freeport, Texas 77541

JTLIPSCOMB@dow.com



ATTACHMENT I

TDD NO. 1/WESTON-042-14-007

U.S. EPA, Region 6 1445 Ross Avenue, Suite 1200 Dallas, TX 75202-2733

TDD #: 1/WESTON-042-14-007

Contract #: EP-W-06-042

Amendment #:

Vendor: WESTON SOLUTIONS, INC.

TDD Title: DowChemical-B1700Phenol Verbal Date: 02/28/2014

Purpose: TDD INITIATION Start Date: 02/28/2014

Completion Date: 07/31/2014 Effective Date: 02/28/2014

Priority: HIGH
Overtime Authorized: Yes
Invoice Unit:

SSID: A6JE Work Area: Response / Removal

Project/Site Name : DowChemical-B1700Phenol Work Area Code : PJ

Project Address: 2301 N Brazosport Blvd Activity: Fund Lead Removal

A distribution of TDD Oction			
Authorized TDD Ceiling :	Amount	LOE (Hours)	
Previous Action(s):	\$0.00	0.00	
This Action :	\$16,000.00	0.00	
New Total :	\$16,000.00	0.00	

Specific Elements:

See Schedule

Description of Work:

See Schedule

Region Specific :

CERCLIS: Misc 2:

SEO.
SFO:

Line	Budget / FY	Approp. Code	Budget Org.	Program Element	Object Class	Site Project	Cost Org.	DCN Line-ID	Funding Category	TDD Amount
1	14	Т	6A00	303DC6	2505	A6JERV00		146ARVC002-001	REMOVAL	\$16,000.00

U.S. EPA, Region 6 1445 Ross Avenue, Suite 1200 Dallas, TX 75202-2733

Vendor: WESTON SOLUTIONS, INC.

TDD #: 1/WESTON-042-14-007

Amendment #:

Contract #: EP-W-06-042

Project Officer :	Will LaBombard		Branch Mail Code:	
			Phone Number :	214-665-7199
	(Signature)	(Date)	Fax Number :	
Contracting Officer Repres	sentative: Adam Adams		Branch Mail Code :	
			Phone Number :	2146652779
	(Signature)	(Date)	Fax Number :	
Contract Specialist:	Cora Stanley		Branch Mail Code :	
			Phone Number :	214-665-7464
	(Signature)	(Date)	Fax Number :	
Contracting Officer :	Cora Stanley		Branch Mail Code :	
Electronically Sign	ned by Cora Stanley	03/04/2014	Phone Number :	214-665-7464
	(Signature)	(Date)	Fax Number :	
Other Agency Official :			Branch Mail Code :	
			Phone Number :	
	(Signature)	(Date)	Fax Number :	

Specific Elements: Analyze -Data that has been collected., Collect -Samples, Document -The removal activities. Prepare a written report., Support -The removal activities, Advise -The OSC on disposal options and completion of the removal activities.

Description of Work: Budget/Ceiling for this TDD is \$16,000.00.

Contractor also shall provide technical support, ICS support (as directed by TM/OSC), website support, and either an AOC report or Emergency Response report (as directed by the OSC). Contractor shall provide mapping support (pdo viewer and hard copies, as directed by OSC). Contractor shall assist with community information, as directed by TM/OSC.